

AD 748039

**FAR FIELD NOISE GENERATION BY
COAXIAL FLOW JET EXHAUSTS
VOLUME II - COMPILATION OF TEST RESULTS**

Kenneth M. Eldred, et al

**WYLE LABORATORIES
128 Maryland Street
El Segundo, California 90245**



NOVEMBER 1971

FINAL REPORT

Availability is unlimited. Document may be released to the National Technical Information Service, Springfield, Virginia 22151, for sale to the public.

Reproduced by
**NATIONAL TECHNICAL
INFORMATION SERVICE**
U S Department of Commerce
Springfield VA 22151

Prepared for

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
Systems Research & Development Service
Washington, D.C. 20591**

ADDITION FOR	
ATIS	White Section <input checked="" type="checkbox"/>
D. C.	East Section <input type="checkbox"/>
UNAL. SECTION	<input type="checkbox"/>
JUSTIFICATION	
BY	
DISTRIBUTION/AVAILABILITY CODES	
Dist.	Avail. and/or Special
A	

The contents of this report reflect the views of Wyle Laboratories which is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policy of the Department of Transportation. This report does not constitute a standard, specification, or regulation.

1. Report No. FAA-RD-71-101, II	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle FAR FIELD NOISE GENERATION BY COAXIAL FLOW JET EXHAUSTS. VOLUME II - COMPILATION OF TEST RESULTS		5. Report Date November 1971	
		6. Performing Organization Code	
7. Author(s) Kenneth M. Eldred, et al		8. Performing Organization Report No.	
9. Performing Organization Name and Address Wyle Laboratories - Research Staff 128 Maryland Street El Segundo, California 90245		10. Work Unit No. 550-001-05H	
		11. Contract or Grant No. DOT FA68WA-1889	
12. Sponsoring Agency Name and Address Federal Aviation Administration Systems Research and Development Service 800 Independence Avenue, S.W. Washington, D.C. 20590		13. Type of Report and Period Covered FINAL REPORT March 1968 - November 1971	
		14. Sponsoring Agency Code	
15. Supplementary Notes			
16. Abstract <p>Model scale air jets were used in an anechoic room to conduct a parametric study on the sound produced by coaxial circular jets. The following parameters were varied.</p> <ul style="list-style-type: none"> • Primary nozzle Mach numbers (from 0.85 to 1.47) • Primary flow total temperature (60°F to 800°F) • Ratio of secondary flow velocity to primary flow velocity (zero to sonic secondary velocity) • Ratio of secondary nozzle area to primary nozzle area (zero to 10). • Axial position of primary nozzle relative to secondary velocity (± 1 primary nozzle diameters). <p>The results from these model tests were analyzed and scaled to give the overall sound power output, directivity indices and the sideline sound pressure spectra and perceived noise levels for engine thrusts ranging from 10,000 pounds to 80,000 pounds. The results were used to determine the reduction in overall sound power and maximum sideline perceived noise level as a function of the ratio of the secondary nozzle area to primary nozzle area and the ratio of secondary velocity to primary velocity. The maximum reduction was found to occur at a velocity ratio of approximately 0.5. The maximum reduction was 10 dB in overall power level and 11 PNdB in maximum perceived noise level on a 1500 foot sideline. These results were shown to be in accordance with a simple theoretical model of noise generation by coplanar coaxial jets. The noise reduction curves were also reinterpreted to indicate the flow characteristics required to produce an acoustically optimum, practical jet engine and to show the noise penalties that result due to deviations from this optimum configuration. Volume I is a detailed discussion and Volume II is a compilation of test results.</p>			
17. Key Words Acoustics Minimum Noise Aircraft Noise Noise Source Control Coaxial Jets Noise Prediction Jet Noise		18. Distribution Statement Availability is unlimited. Document may be released to the National Technical Information Service, Springfield, Virginia 22151, for sale to the public.	
19. Security Class. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 327	22. Price \$6.00 PC .95 MF

INTRODUCTION

This is Volume II of a two-volume report on an empirically-derived noise prediction method for coaxial jets. Volume I contains a description of the experimental program, the resulting method for predicting the noise of full-scale coaxial flow jets in terms of maximum sideline perceived noise level (PNL), and a design guide for noise minimization at constant thrust. This volume contains a listing of the experimental runs that were made in the course of this project.

Table 1 shows the groups of experimental runs associated with the various flow conditions of the primary nozzles and the relative position of the primary and secondary nozzles. Half extended or retracted means the primary nozzle is displaced 5.5 primary nozzle diameters axially from the exit plane of the secondary nozzle. Fully retracted or extended refers to 11 diameters. Within each group of runs indicated in the table, there is an equal number of runs for each of the four secondary nozzles. For each secondary nozzle, the secondary flow velocity is varied between that required to give a velocity ratio (secondary to primary) of one-third, up to a sonic velocity. Intermediate velocity ratios of two-thirds and unity are interposed between these extremes if this does not require the secondary velocity to be supersonic.

Table 2 gives a detailed listing of the actual completed runs, giving the following data:

- Run Number (numbers in parentheses are reruns; asterisks indicate corrections were made to correct the high frequency data in the vicinity of 110 degrees for the third anomaly discussed in Section 4.2)
- Nozzle Position
- Nominal Area Ratio
- Primary Temperature
- Primary Pressure Ratio
- Primary Velocity
- Velocity Ratio (secondary/primary)
- Mass Flow Ratio (secondary/primary)

Appendix A contains the computer printouts for each experimental run which have been reduced to include, on a single page, the following information:

- Model Jet Run Conditions
- Model Jet Power Spectrum
- Full Scale Jet Overall Sound Power Levels
- Octave Band Sound Pressure Levels from the Model Jet
- 1500 Foot Sideline Perceived Noise Level and Octave Band Sound Pressure Levels for 20,000 Pounds Thrust Engine

It should be noted that the area ratios given on the computer printouts differ slightly from the nominal area ratios and from the effective area ratios given in Section 3.2.2 of Volume 1. These area ratios should be interpreted as follows:

<u>Computer Printout</u>	<u>Nominal Area Ratio</u>
1.000	1
2.007	2
4.856	5
9.788	10

For additional details concerning the data displayed in this volume, see the appropriate sections in Volume 1.

Table 1. Directory of Experimental Run Conditions

	Primary Nozzle Flow Temperature					
	60°F			450°F		
	Primary Pressure Ratio			Primary Pressure Ratio		
Primary Nozzle Alone	1.6	2.5	3.5	1.6	2.5	3.5
Coplanar Nozzles	101	118	131	144	157	166
	600-606					
Fully Extended Primary	102-117	119-130	132-143	145-156	158-165	167-174
	215-230	231-242	243-254	255-266	267-274	275-282
Fully Retracted Primary	311-326	327-338	339-350	-	-	-
Half Extended Primary	(2)	(2)	(2)	-	-	-
	407-422	423-434	435-446	447-458	459-466	467-474
Half Retracted Primary	503-516	519-530	531-592	-	-	-

(1) Some runs not made in these groups (see Table 2 for details).

(2) Runs not made when secondary supply pressure greater than primary supply pressure. Primary plenum pressures for these runs were identical with those of all other runs; however, actual pressure ratios across primary exhausting into secondary were lower and are given in Table 2.

Table 2
Experimental Run Conditions

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
101	Primary Nozzle Alone	—	64	1.6	899	—	—
102	Coplanar	1	64	1.6	900	0.35	0.58
103	Coplanar	1	64	1.6	894	0.70	0.93
104	Coplanar	1	64	1.6	894	1.0	1.33
105	Omitted	—	—	—	—	—	—
106	Coplanar	2	64	1.6	891	0.35	1.10
107 (705)	Coplanar	2	64	1.6	893	0.70	1.99
108 (722)	Coplanar	2	64	1.6	892	1.0	2.61
109	Coplanar	2	64	1.6	893	1.15	3.25
110 (706)	Coplanar	5	64	1.6	892	0.35	1.63
111 (723)	Coplanar	5	64	1.6	892	0.70	3.79
112 (803)	Coplanar	5	64	1.6	894	1.0	5.50
113	Omitted	—	—	—	—	—	—
114 (708)	Coplanar	10	64	1.6	895	0.35	3.30
115 (804)	Coplanar	10	64	1.6	899	0.70	7.15
116	Coplanar	10	64	1.6	878	1.0	11.03
117 (726)	Coplanar	10	64	1.6	881	1.16	14.28
118	Primary Nozzle Alone	—	64	2.5	1204	—	—
119 (709)	Coplanar	1	64	2.5	1199	0.38	0.46
120 (710)	Coplanar	1	64	2.5	1199	0.73	0.79
*121 (713)	Coplanar	1	64	2.5	1207	0.84	1.04
*122 (714)	Coplanar	2	64	2.5	1195	0.38	0.92
*123	Coplanar	2	64	2.5	1193	0.73	1.61
*124 (715)	Coplanar	2	64	2.5	1193	0.86	2.03

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*125 (717)	Coplanar	5	64	2.5	1182	0.38	1.67
*126	Coplanar	5	64	2.5	1177	0.73	3.34
127 (719)	Coplanar	5	64	2.5	1177	0.86	4.14
*128	Coplanar	10	64	2.5	1184	0.38	3.18
*129	Coplanar	10	64	2.5	1194	0.73	6.69
*130	Coplanar	10	64	2.5	1195	0.87	8.38
*131	Primary Nozzle Alone	—	64	3.5	1380	—	—
*132	Coplanar	1	64	3.5	1374	0.35	0.38
*133	Omitted	—	—	—	—	—	—
*134	Coplanar	1	64	3.5	1382	0.74	0.76
*135 (720)	Coplanar	2	64	3.5	1370	0.35	0.68
*136 (809)	Coplanar	2	64	3.5	1368	0.67	1.31
*137	Coplanar	2	64	3.5	1374	0.74	1.48
*138	Coplanar	5	64	3.5	1376	0.35	1.40
*139	Coplanar	5	64	3.5	1376	0.67	2.96
*140	Coplanar	5	64	3.5	1367	0.75	3.36
*141 (721)	Coplanar	10	64	3.5	1387	0.35	2.64
*142	Coplanar	10	64	3.5	1383	0.67	5.88
*143	Coplanar	10	64	3.5	1387	0.75	6.67
144	Primary Nozzle Alone	—	450	1.6	1176	—	—
145	Coplanar	1	450	1.6	1176	0.38	0.78
146	Coplanar	1	450	1.6	1176	0.73	1.43
147	Coplanar	1	450	1.6	1176	0.88	1.89
148	Coplanar	2	450	1.6	1176	0.38	1.38

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
149	Coplanar	2	450	1.6	1176	0.72	3.05
150 (811)	Coplanar	2	450	1.6	1176	0.87	4.09
151	Coplanar	5	450	1.6	1176	0.38	3.29
152	Coplanar	5	450	1.6	1176	0.72	6.65
153	Coplanar	5	450	1.6	1176	0.87	9.04
154 (727)	Coplanar	10	450	1.6	1176	0.38	6.02
155	Coplanar	10	450	1.6	1176	0.73	13.38
156 (729)	Coplanar	10	450	1.6	1176	0.88	18.38
*157	Primary Nozzle Alone	—	450	2.5	1590	—	—
*158	Coplanar	1	450	2.5	1590	0.41	0.68
*159	Coplanar	1	450	2.5	1590	0.66	1.18
*160	Coplanar	2	450	2.5	1590	0.40	1.48
161	Omitted	—	—	—	—	—	—
*162	Coplanar	5	450	2.5	1590	0.41	3.07
163	Coplanar	5	450	2.5	1590	0.65	5.10
*164 (812)	Coplanar	10	450	2.5	1590	0.40	5.42
165	Coplanar	10	450	2.5	1590	0.66	10.22
*166	Primary Nozzle Alone	—	450	3.5	1817	—	—
*167 (732)	Coplanar	1	450	3.5	1817	0.57	1.02
168	Omitted	—	—	—	—	—	—
*169	Coplanar	2	450	3.5	1817	0.42	1.38
*170 (734)	Coplanar	2	450	3.5	1817	0.57	1.96
*171	Coplanar	5	450	3.5	1817	0.42	3.00
*172 (736)	Coplanar	5	450	3.5	1817	0.58	4.15

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*173	Coplanar	10	450	3.5	1817	0.42	5.42
*174	Coplanar	10	450	3.5	1817	0.58	8.45
175	Primary Nozzle Alone	—	800	1.6	1401	—	—
176	Coplanar	1	800	1.6	1401	0.37	1.01
177	Coplanar	1	800	1.6	1362	0.71	1.80
178	Coplanar	1	800	1.6	1362	0.78	2.03
179	Coplanar	2	800	1.6	1364	0.37	2.07
180 (737)	Coplanar	2	800	1.6	1359	0.69	3.62
181	Coplanar	2	800	1.6	1361	0.77	4.53
182	Coplanar	5	800	1.6	1369	0.36	3.83
183 (738)	Coplanar	5	800	1.6	1362	0.69	8.48
184 (739)	Coplanar	5	800	1.6	1366	0.77	9.84
185 (815)	Coplanar	10	800	1.6	1366	0.36	7.67
186	Coplanar	10	800	1.6	1359	0.69	17.68
187	Coplanar	10	800	1.6	1359	0.77	21.85
*188 (816)	Primary Nozzle Alone	—	800	2.5	1864	—	—
*189	Coplanar	1	800	2.5	1853	0.39	0.78
*190	Coplanar	1	800	2.5	1856	0.58	1.38
191	Coplanar	2	800	2.5	1855	0.38	1.84
192 (817)	Coplanar	2	800	2.5	1856	0.57	2.65
*193	Coplanar	5	800	2.5	1854	0.38	3.79
194 (741)	Coplanar	5	800	2.5	1853	0.56	5.98
195	Omitted	—	—	—	—	—	—
196	Coplanar	10	800	2.5	1862	0.56	12.00

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*197	Primary Nozzle Alone	—	800	3.5	2169	—	—
*198	Coplanar	1	800	3.5	2183	0.38	0.84
*199	Coplanar	1	800	3.5	2178	0.49	1.08
*200	Coplanar	2	800	3.5	2179	0.38	1.74
201	Coplanar	2	800	3.5	2183	0.48	2.27
*202 (744)	Coplanar	5	800	3.5	2183	0.38	3.84
203	Omitted	—	—	—	—	—	—
*204	Coplanar	10	800	3.5	2180	0.38	7.29
205	Coplanar	10	800	3.5	2184	0.48	10.08
206 -214	Omitted	—	—	—	—	—	—
215	Fully Extended Primary	1	66	1.6	898	0.35	0.32
216	Fully Extended Primary	1	66	1.6	896	0.70	0.82
217	Fully Extended Primary	1	66	1.6	900	0.99	1.21
218	Fully Extended Primary	1	66	1.6	898	1.14	1.49
219	Fully Extended Primary	2	66	1.6	892	0.35	0.60
220	Fully Extended Primary	2	66	1.6	892	0.70	1.34
221	Fully Extended Primary	2	66	1.6	895	1.0	2.79
222	Fully Extended Primary	2	66	1.6	895	1.14	3.36
223 (745)	Fully Extended Primary	5	66	1.6	894	0.34	1.60

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
224	Omitted	—	—	—	—	—	—
225	Fully Extended Primary	5	66	1.6	895	0.99	6.09
226	Fully Extended Primary	5	66	1.6	900	1.15	7.01
227	Fully Extended Primary	10	66	1.6	887	0.35	3.20
228	Fully Extended Primary	10	66	1.6	895	0.70	6.65
229	Fully Extended Primary	10	66	1.6	898	1.0	10.58
230	Fully Extended Primary	10	66	1.6	898	1.16	12.44
*231	Fully Extended Primary	1	66	2.5	1210	0.38	0.32
*232	Fully Extended Primary	1	66	2.5	1221	0.71	0.68
*233	Fully Extended Primary	1	66	2.5	1220	0.84	0.88
*234	Fully Extended Primary	2	66	2.5	1209	0.38	0.58
*235	Fully Extended Primary	2	66	2.5	1217	0.72	1.26
*236	Fully Extended Primary	2	66	2.5	1204	0.85	1.54
*237	Fully Extended Primary	5	66	2.5	1200	0.38	1.60
*238	Fully Extended Primary	5	66	2.5	1187	0.73	3.24
*239	Omitted	—	—	—	—	—	—
*240	Fully Extended Primary	10	66	2.5	1208	0.38	2.44

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*241	Fully Extended Primary	10	66	2.5	1208	0.72	5.31
242	Omitted	—	—	—	—	—	—
*243	Fully Extended Primary	1	66	3.5	1378	0.36	0.27
*244	Fully Extended Primary	1	66	3.5	1383	0.67	0.59
*245	Fully Extended Primary	1	66	3.5	1384	0.74	0.70
*246	Fully Extended Primary	2	66	3.5	1367	0.36	0.51
*247	Fully Extended Primary	2	66	3.5	1374	0.68	1.05
*248	Fully Extended Primary	2	66	3.5	1380	0.74	1.29
*249	Fully Extended Primary	5	66	3.5	1374	0.35	1.30
*250 (747)	Fully Extended Primary	5	66	3.5	1370	0.68	2.81
*251	Fully Extended Primary	5	66	3.5	1378	0.76	3.23
*252	Fully Extended Primary	10	66	3.5	1388	0.36	2.47
*253	Fully Extended Primary	10	66	3.5	1388	0.68	5.46
*254	Fully Extended Primary	10	66	3.5	1387	0.75	6.31
255	Fully Extended Primary	1	450	1.6	1177	0.39	0.50
256	Fully Extended Primary	1	450	1.6	1184	0.73	1.77

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
257	Fully Extended Primary	1	450	1.6	1183	0.88	1.56
258	Fully Extended Primary	2	450	1.6	1187	0.39	1.04
259	Fully Extended Primary	2	450	1.6	1187	0.73	2.34
260	Fully Extended Primary	2	450	1.6	1184	0.88	3.02
261	Fully Extended Primary	5	450	1.6	1185	0.38	2.85
262	Omitted	—	—	—	—	—	—
263	Fully Extended Primary	5	450	1.6	1183	0.88	7.96
264	Fully Extended Primary	10	450	1.6	1186	0.38	5.44
265 (750)	Fully Extended Primary	10	450	1.6	1185	0.72	11.66
266	Fully Extended Primary	10	450	1.6	1186	0.88	16.15
*267	Fully Extended Primary	1	450	2.5	1605	0.41	0.54
*268	Fully Extended Primary	1	450	2.5	1594	0.66	1.15
*269	Fully Extended Primary	2	450	2.5	1604	0.40	0.95
*270	Omitted	—	—	—	—	—	—
*271	Fully Extended Primary	5	450	2.5	1601	0.40	2.62
*272	Fully Extended Primary	5	450	2.5	1605	0.65	4.88
*273	Fully Extended Primary	10	450	2.5	1603	0.40	5.07

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*274	Fully Extended Primary	10	450	2.5	1604	0.65	9.62
*275 (751)	Fully Extended Primary	1	450	3.5	1802	0.42	0.64
*276	Fully Extended Primary	1	450	3.5	1800	0.58	0.98
*277	Fully Extended Primary	2	450	3.5	1800	0.42	0.72
*278 (752)	Fully Extended Primary	2	450	3.5	1800	0.58	1.07
*279	Fully Extended Primary	5	450	3.5	1798	0.42	1.52
*280	Fully Extended Primary	5	450	3.5	1800	0.58	2.19
*281	Fully Extended Primary	10	450	3.5	1803	0.42	5.17
*282	Fully Extended Primary	10	450	3.5	1802	0.58	7.96
283 - 284	Omitted	—	—	—	—	—	—
285	Fully Extended Primary	1	800	1.6	1372	0.78	1.74
286	Fully Extended Primary	2	800	1.6	1374	0.37	1.33
287 (754)	Fully Extended Primary	2	800	1.6	1376	0.69	2.92
288	Fully Extended Primary	2	800	1.6	1379	0.76	3.58
289	Fully Extended Primary	5	800	1.6	1377	0.36	3.57
290	Fully Extended Primary	5	800	1.6	1374	0.69	7.63

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
291	Fully Extended Primary	5	800	1.6	1374	0.76	8.82
292-302	Omitted	—	—	—	—	—	—
*303 (753)	Fully Extended Primary	1	800	3.5	2182	0.39	0.62
*304	Fully Extended Primary	1	800	3.5	2185	0.49	0.96
305-310	Omitted	—	—	—	—	—	—
311	Fully Retracted Primary	1	74	1.52	846	0.37	0.71
312	Fully Retracted Primary	1	74	1.29	664	0.94	1.80
313-314	Omitted	—	—	—	—	—	—
315	Fully Retracted Primary	2	74	1.52	845	0.37	0.99
316	Fully Retracted Primary	2	74	1.29	663	0.94	2.15
317-319	Omitted	—	—	—	—	—	—
320	Fully Retracted Primary	5	74	1.29	664	0.94	4.34
321-322	Omitted	—	—	—	—	—	—
323	Fully Retracted Primary	10	74	1.52	853	0.37	3.63
324	Fully Retracted Primary	10	74	1.29	669	0.94	7.70
325-327	Omitted	—	—	—	—	—	—
328 (832)	Fully Retracted Primary	1	74	1.61	896	0.96	1.16
329 (762)	Fully Retracted Primary	1	74	1.32	700	1.47	1.68

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. $\sim^{\circ}\text{F}$ Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
330	Fully Retracted Primary	2	74	2.23	1146	0.40	0.76
331	Fully Retracted Primary	2	74	1.61	906	0.96	1.66
332	Fully Retracted Primary	2	74	1.32	702	1.47	2.49
333	Fully Retracted Primary	5	74	2.23	1141	0.40	1.79
334	Fully Retracted Primary	5	74	1.56	872	1.03	3.68
335	Fully Retracted Primary	5	74	1.32	705	1.47	4.98
336	Fully Retracted Primary	10	74	2.23	1148	0.40	3.20
337	Fully Retracted Primary	10	74	1.61	904	0.96	6.34
338	Fully Retracted Primary	10	74	1.32	705	1.47	8.85
339	Fully Retracted Primary	1	74	3.06	1330	0.37	0.46
340	Fully Retracted Primary	1	74	2.09	1114	0.84	0.89
341 (763)	Fully Retracted Primary	1	74	1.85	1025	1.01	1.12
342	Fully Retracted Primary	2	74	3.06	1331	0.37	0.74
343	Fully Retracted Primary	2	74	2.09	1114	0.84	1.43
344	Fully Retracted Primary	2	74	1.85	1024	1.01	1.68
345	Fully Retracted Primary	5	74	3.06	1331	0.37	1.62

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. $\sim^{\circ}\text{F}$ Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
346	Fully Retracted Primary	5	74	2.09	1109	0.85	3.09
347 (764)	Fully Retracted Primary	5	74	1.85	1024	1.01	3.57
348	Fully Retracted Primary	10	74	3.06	1335	0.37	2.88
349	Fully Retracted Primary	10	74	2.09	1115	0.85	6.05
350	Fully Retracted Primary	10	74	1.85	1023	1.02	6.69
351-407	Omitted	—	—	—	—	—	—
408 (823)	Half Extended Primary	1	60	1.6	896	0.70	0.63
409	Half Extended Primary	1	60	1.6	894	1.0	1.04
410	Half Extended Primary	1	60	1.6	895	1.15	1.28
411	Half Extended Primary	2	60	1.6	894	0.35	0.55
412	Half Extended Primary	2	60	1.6	896	0.70	1.27
413	Half Extended Primary	2	60	1.6	897	1.0	2.12
414 (756)	Half Extended Primary	2	60	1.6	895	1.15	2.59
415	Half Extended Primary	5	60	1.6	886	0.35	1.54
416	Half Extended Primary	5	60	1.6	883	0.70	3.28
417 (824)	Half Extended Primary	5	60	1.6	887	1.01	5.14

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
418	Half Extended Primary	5	60	1.6	887	1.16	5.98
419	Half Extended Primary	10	60	1.6	887	0.35	2.94
420	Half Extended Primary	10	60	1.6	887	0.70	6.12
421	Half Extended Primary	10	60	1.6	894	1.01	9.75
422	Half Extended Primary	10	60	1.6	892	1.16	11.90
*423	Half Extended Primary	1	60	2.5	1198	0.38	0.26
*424	Half Extended Primary	1	60	2.5	1198	0.72	0.60
*425	Half Extended Primary	1	60	2.5	1202	0.85	0.75
*426	Half Extended Primary	2	60	2.5	1202	0.38	0.56
*427	Half Extended Primary	2	60	2.5	1202	0.72	1.21
*428	Omitted	—	—	—	—	—	—
*429 (757)	Half Extended Primary	5	60	2.5	1202	0.38	1.43
*430	Half Extended Primary	5	60	2.5	1205	0.72	3.02
*431	Half Extended Primary	5	60	2.5	1211	0.85	3.85
*432	Half Extended Primary	10	60	2.5	1210	0.38	2.79
*433	Half Extended Primary	10	60	2.5	1205	0.72	5.94

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ ^o F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
434	Half Extended Primary	10	60	2.5	1208	0.86	7.48
*435	Half Extended Primary	1	60	3.5	1356	0.36	0.24
*436	Half Extended Primary	1	60	3.5	1360	0.68	0.54
*437	Half Extended Primary	1	60	3.5	1363	0.75	0.62
*438	Half Extended Primary	2	60	3.5	1366	0.36	0.48
*439	Half Extended Primary	2	60	3.5	1366	0.68	1.12
*440	Half Extended Primary	2	60	3.5	1367	0.75	1.29
*441	Half Extended Primary	5	60	3.5	1370	0.36	1.22
*442	Half Extended Primary	5	60	3.5	1374	0.68	2.73
*443	Half Extended Primary	5	60	3.5	1380	0.75	3.14
*444	Half Extended Primary	10	60	3.5	1376	0.36	2.44
*445	Half Extended Primary	10	60	3.5	1378	0.68	5.27
*446	Half Extended Primary	10	60	3.5	1380	0.75	6.08
447	Half Extended Primary	1	460	1.6	1189	0.38	0.52
448	Half Extended Primary	1	460	1.6	1189	0.73	1.14
449	Half Extended Primary		460	1.6	1185	0.88	1.63

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
450	Half Extended Primary	2	460	1.6	1187	0.38	0.99
451	Half Extended Primary	2	460	1.6	1185	0.72	2.42
452	Half Extended Primary	2	460	1.6	1188	0.87	3.14
453	Half Extended Primary	5	460	1.6	1187	0.38	2.64
454 (759)	Half Extended Primary	5	460	1.6	1186	0.73	5.81
455	Half Extended Primary	5	460	1.6	1186	0.88	7.63
456	Half Extended Primary	10	460	1.6	1183	0.38	5.38
457	Half Extended Primary	10	460	1.6	1186	0.73	11.52
458	Half Extended Primary	10	460	1.6	1186	0.88	15.09
*459	Half Extended Primary	1	460	2.5	1601	0.40	0.52
*460	Half Extended Primary	1	460	2.5	1597	0.65	0.97
*461	Half Extended Primary	2	460	2.5	1601	0.40	1.00
*462 (826)	Half Extended Primary	2	460	2.5	1596	0.65	1.09
*463	Half Extended Primary	5	460	2.5	1600	0.40	2.68
*464	Half Extended Primary	5	460	2.5	1599	0.65	4.96
*465	Half Extended Primary	10	460	2.5	1601	0.40	5.18

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*466	Half Extended Primary	10	460	2.5	1601	0.65	9.67
*467	Half Extended Primary	1	460	3.5	1829	0.42	0.52
*468	Half Extended Primary	1	460	3.5	1824	0.57	0.76
*469	Half Extended Primary	2	460	3.5	1827	0.42	0.94
*470	Half Extended Primary	2	460	3.5	1828	0.58	1.52
*471	Half Extended Primary	5	460	3.5	1828	0.42	2.66
*472	Half Extended Primary	5	460	3.5	1825	0.58	3.86
*473	Half Extended Primary	10	460	3.5	1828	0.42	4.83
*474	Half Extended Primary	10		3.5	1828	0.58	7.76
475-503	Omitted	—	—	—	—	—	—
504	Half Retracted Primary	1	70	1.29	666	0.94	1.59
505 (765)	Half Retracted Primary	2	70	1.52	847	0.37	1.04
506 (766)	Half Retracted Primary	2	70	1.29	663	0.94	2.24
507-510	Omitted	—	—	—	—	—	—
511	Half Retracted Primary	5	70	1.52	843	0.37	2.05
512	Half Retracted Primary	5	70	1.29	661	0.94	4.42
513-514	Omitted	—	—	—	—	—	—

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
515	Half Retracted Primary	10	70	1.52	843	0.37	3.52
516	Half Retracted Primary	10	70	1.29	667	0.94	7.68
517-518	Omitted	-	-	-	-	-	-
519	Half Retracted Primary	1	70	2.23	1149	0.40	0.69
*520	Half Retracted Primary	1	70	1.61	903	0.97	1.33
*521	Half Retracted Primary	1	70	1.32	702	1.47	1.92
522	Half Retracted Primary	2	70	2.23	1144	0.40	1.01
523	Half Retracted Primary	2	70	1.61	894	0.97	1.92
*524	Half Retracted Primary	2	70	1.32	698	1.47	2.78
*525	Half Retracted Primary	5	70	2.23	1138	0.40	1.95
526	Half Retracted Primary	5	70	1.61	895	0.97	3.90
*527	Half Retracted Primary	5	70	1.32	699	1.48	5.29
528	Half Retracted Primary	10	70	2.23	1144	0.40	3.19
529	Half Retracted Primary	10	70	1.61	898	0.97	6.03
530	Half Retracted Primary	10	70	1.32	702	1.45	9.16
*531	Half Retracted Primary	1	70	3.06	1314	0.37	0.62

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*532	Half Retracted Primary	1	70	2.09	1095	0.85	1.10
*533 (767)	Half Retracted Primary	1	70	1.85	1012	1.02	1.27
*534	Half Retracted Primary	2	70	3.06	1320	0.37	0.88
*535	Half Retracted Primary	2	70	2.09	1100	0.85	1.58
*536	Half Retracted Primary	2	70	1.85	1020	1.02	1.88
*537	Half Retracted Primary	5	70	3.06	1331	0.37	1.63
538	Omitted	—	—	—	—	—	—
*539	Half Retracted Primary	5	70	1.85	1023	1.02	3.67
*540	Half Retracted Primary	10	70	3.06	1332	0.37	2.82
541	Half Retracted Primary	10	70	2.09	1108	0.85	5.84
542	Half Retracted Primary	10	70	1.85	1020	1.02	6.72
543-599	Omitted	—	—	—	—	—	—
600	Primary Nozzle Alone	—	74	2.0	1076	—	—
601	Primary Nozzle Alone	—	74	2.5	1221	—	—
*602	Primary Nozzle Alone	—	74	3.0	1318	—	—
*603	Primary Nozzle Alone	—	74	3.5	1392	—	—

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*604 (836)	Primary Nozzle Alone	—	74	4.0	1450	—	—
*605	Primary Nozzle Alone	—	74	5.4	1570	—	—
*606	Primary Nozzle Alone	—	74	7.8	1688	—	—

APPENDIX A

DETAILED DATA FOR EXPERIMENTAL RUNS

RUN NUMBER	# 101,004
AIRAL POSITION OF PRIMARY WHT. SECONDARY (INCHES)	# NONE
PRIMARY TEMPERATURE (°R)	# 510,000
SECONDARY TEMPERATURE (°R)	# NONE
PRIMARY PRESSURE RATIO	# 1.600
AREA RATIO	# NONE
VELOCITY RATIO	# NONE
PRIMARY VELOCITY (FT/SEC)	# 800,333
MASS FLOW RATIO	# NONE
PRIMARY MASS FLOW (LB/SEC)	# NONE
THRUST (LBS)	# 229
ENVIRONMENTAL TEMPERATURE (°R)	# 527,000
ENVIRONMENTAL PRESSURE (IN.HG)	# 29.810
ENVIRONMENTAL HUMIDITY (PER CENT)	# 72.000
CALIBRATION FACTOR TVD TO 37253 (°C)	# .007
INSTRUMENTATION NOISE FLOOR (DB)	# 46.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	9.22692E-02	119.7	THRUST	POWER LEVEL (DB)
500	5.50867E-04	97.4	10000	151.8
1000	3.53659E-03	105.5	20000	154.8
2000	1.78060E-02	112.5	40000	157.8
4000	2.48826E-02	114.0	80000	160.8
8000	2.45427E-02	113.9		
16000	1.45212E-02	111.6		
31500	6.41933E-03	108.1		

EXPERIMENTAL DATA

TABLE SHOWS OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	76.2	84.8	91.3	90.0	85.3	79.9	74.6	95.0
22.5	75.8	84.3	91.4	90.6	86.6	81.1	76.3	95.4
30.0	74.2	83.3	90.7	91.2	87.9	82.4	76.9	95.5
37.5	72.9	81.6	89.0	90.2	88.2	83.6	78.5	94.7
45.0	71.4	80.1	87.3	89.0	86.5	84.7	79.6	94.1
52.5	69.7	77.7	85.3	87.7	84.1	83.0	81.3	93.2
60.0	68.5	76.0	83.7	86.1	82.2	81.0	81.1	92.2
67.5	66.9	74.6	82.0	84.8	80.3	84.4	80.9	91.2
75.0	66.0	73.3	80.8	83.8	79.4	84.0	80.7	90.4
82.5	66.0	72.4	79.8	82.8	84.3	82.9	79.6	89.3
90.0	65.0	72.0	79.1	82.3	84.0	82.7	79.5	89.0
97.5	65.4	72.1	78.4	81.4	83.3	82.2	79.2	88.6
105.0	64.0	71.9	78.0	81.1	82.8	81.6	78.5	87.9
112.5	64.8	70.9	77.3	80.4	82.1	80.9	78.0	87.2
120.0	63.5	71.2	77.1	80.1	81.6	80.4	77.4	86.8
127.5	64.6	70.4	76.4	79.8	81.4	80.4	77.5	86.6
135.0	63.7	70.3	76.1	79.4	81.1	79.7	76.7	85.1
142.5	62.6	69.9	75.7	78.7	80.5	79.2	76.3	85.6
150.0	62.4	69.6	75.4	78.6	80.3	79.3	76.6	85.5
157.5	61.6	69.1	75.4	78.0	79.6	78.4	75.9	84.9
165.0	61.4	68.5	74.9	78.0	79.6	78.2	75.4	84.7

MODEL THRUST = 6.144 FULL SCALE THRUST = 20000.000

L	PHON.	OASPL	OCTAVE		BAND	SOUND	PRESSURE	LEVELS					
			8.8	17.5	35.1	70.1	140.2	280.4	560.1	1100.2	2100.9	4301.9	8763.4
8705.4	60.0	60.5	74.3	86.67	85.23	71.66	70.28	65.37	59.67	51.61	43.15	28.02	-0.09
4385.7	76.1	72.7	78.1	88.4	87.17	74.19	73.40	69.15	63.04	54.60	40.47	37.20	15.10
3540.1	77.4	75.0	76.1	88.4	88.02	75.17	75.78	72.30	66.37	59.54	53.24	47.17	24.60
3000.0	80.0	77.7	78.7	89.5	87.77	75.12	76.25	74.18	69.14	62.87	57.04	47.77	31.77
2615.2	81.4	79.2	81.2	88.76	87.63	74.63	76.26	75.68	71.40	66.46	60.98	51.60	37.18
2333.4	83.7	80.1	81.3	88.67	88.02	73.74	75.04	76.32	72.86	67.22	62.62	54.14	41.03
2121.1	84.0	80.6	81.2	87.77	89.16	72.82	75.18	76.19	73.43	69.07	64.03	56.40	44.41
1954.1	84.2	80.6	81.2	87.70	89.45	71.85	74.58	76.97	73.80	69.64	64.70	57.70	46.22
1831.2	84.4	80.6	81.2	87.70	89.45	71.14	74.22	76.71	74.01	70.06	65.13	58.01	47.51
1732.1	84.4	80.6	81.2	87.70	89.45	70.75	73.49	76.09	73.40	69.24	64.03	58.01	47.51
1654.1	84.4	80.6	81.2	87.70	89.45	70.69	73.47	76.15	73.40	69.24	64.03	58.01	47.51
1594.1	84.4	80.6	81.2	87.70	89.45	70.61	73.36	76.03	73.40	69.24	64.03	58.01	47.51
1552.0	84.4	80.6	81.2	87.70	89.45	70.61	73.40	76.03	73.40	69.24	64.03	58.01	47.51
1523.1	84.4	80.6	81.2	87.70	89.45	70.61	73.40	76.03	73.40	69.24	64.03	58.01	47.51
1494.7	84.4	80.6	81.2	87.70	89.45	70.61	73.40	76.03	73.40	69.24	64.03	58.01	47.51
1500.0	84.4	80.6	81.2	87.70	89.45	70.61	73.40	76.03	73.40	69.24	64.03	58.01	47.51
1505.7	84.4	80.6	81.2	87.70	89.45	70.61	73.40	76.03	73.40	69.24	64.03	58.01	47.51
1523.1	84.4	80.6	81.2	87.70	89.45	70.61	73.40	76.03	73.40	69.24	64.03	58.01	47.51
1552.0	84.4	80.6	81.2	87.70	89.45	70.61	73.40	76.03	73.40	69.24	64.03	58.01	47.51
1594.1	84.4	80.6	81.2	87.70	89.45	70.61	73.40	76.03	73.40	69.24	64.03	58.01	47.51
1654.1	84.4	80.6	81.2	87.70	89.45	70.61	73.40	76.03	73.40	69.24	64.03	58.01	47.51

RUN NUMBER	102000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	512.000
SECONDARY TEMPERATURE (R)	530.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	1.000
VELOCITY RATIO	1.350
PRIMARY VELOCITY (FT/SEC)	900.210
MASS FLOW RATIO	0.574
PRIMARY MASS FLOW (LB/SEC)	0.210
THRUST (LBS)	7.059
ENVIRONMENTAL TEMPERATURE (R)	523.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.810
ENVIRONMENTAL HUMIDITY (PER CENT)	67.000
CALIBRATION FACTOR TWT TO DY/SQ CM	0.007
INSTRUMENTATION NOISE FLOOR (DB)	46.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.49633E-02	118.1	THRUST	POWER LEVEL (DB)
500	7.00521E-04	98.5	10000	149.6
1000	3.92885E-03	105.9	20000	152.6
2000	1.48254E-02	111.7	40000	155.7
4000	1.92770E-02	112.6	80000	150.7
8000	1.53483E-02	111.9		
16000	7.81218E-03	108.9		
31500	3.27099E-03	105.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVFLS 16000	31500	OVER ALL
15.0	77.2	89.1	90.3	87.8	81.4	73.6	66.9	93.5
20.0	76.7	84.9	90.5	89.1	83.4	75.5	68.6	94.1
25.0	75.6	83.7	89.5	89.0	84.1	77.0	70.6	93.6
30.0	74.0	82.3	88.2	88.8	85.3	78.9	72.5	93.1
35.0	72.5	80.4	86.5	88.0	86.3	80.5	74.9	92.5
40.0	71.2	78.5	84.7	86.7	85.8	81.9	76.6	91.6
45.0	69.1	76.6	82.7	85.6	85.4	82.1	77.2	90.7
50.0	67.8	75.0	80.9	84.0	84.3	81.8	77.9	89.5
55.0	67.1	73.6	80.0	83.1	83.7	81.3	77.7	88.8
60.0	66.6	72.9	79.8	81.7	82.1	79.9	76.4	87.4
65.0	66.4	72.9	78.5	81.6	82.2	80.4	77.3	87.5
70.0	66.0	71.8	77.4	81.4	81.4	79.4	76.0	86.6
75.0	65.6	72.7	77.0	80.7	81.5	79.7	76.3	86.7
80.0	65.5	71.1	76.7	80.0	80.5	78.7	75.4	85.8
85.0	65.6	71.3	76.5	79.8	80.6	78.7	75.4	85.8
90.0	65.3	70.8	76.3	79.1	80.0	78.2	75.1	85.3
95.0	65.2	71.0	76.1	79.0	79.6	77.9	74.7	85.0
100.0	63.5	70.3	75.3	78.4	79.4	77.5	74.6	84.6
105.0	63.3	70.4	75.2	78.1	79.2	77.6	74.5	84.5
110.0	62.6	69.6	74.7	77.6	78.3	76.9	73.8	83.8
115.0	61.6	69.1	74.8	77.3	78.0	76.5	73.8	83.5

MODEL THRUST = 7.059 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
				9.4	19.8	37.6	75.1	150.3	300.6	591.8	1183.5	2348.3	4696.6	9393.2
5745.6	65.21	64.21	73.2	57.06	64.94	70.09	67.51	60.78	52.01	42.93	33.98	17.89	-11.94	-64.40
4385.7	70.11	68.91	76.2	58.91	67.14	72.70	71.25	65.30	56.72	47.97	40.56	27.56	4.24	-36.17
3549.1	73.11	71.61	77.5	59.69	67.81	73.56	72.96	67.86	60.23	50.40	45.76	34.74	15.31	-17.48
3000.0	76.01	74.21	79.6	59.53	67.87	73.77	74.29	70.59	63.75	54.12	50.04	40.27	23.38	-5.22
2615.2	78.41	76.21	79.1	59.24	67.14	73.25	74.70	72.79	66.97	59.91	54.23	45.19	30.21	4.89
2333.5	79.71	77.01	79.2	58.90	66.26	72.40	73.39	69.63	63.85	57.45	49.18	35.38	12.47	12.47
2121.1	80.61	77.61	79.1	57.41	65.11	71.28	74.07	73.79	70.18	64.41	59.23	51.44	38.62	17.51
1950.1	81.11	77.71	78.6	57.02	64.21	70.10	73.22	73.44	70.61	65.76	60.75	53.33	41.26	21.58
1831.2	81.44	77.61	78.5	56.95	63.61	69.81	72.87	73.40	70.75	64.36	61.48	54.14	42.88	24.24
1732.1	80.91	76.81	77.6	56.88	63.25	69.08	71.97	72.25	69.14	63.60	60.82	53.91	42.89	25.11
1655.1	81.51	77.61	78.2	57.12	63.67	69.17	72.24	72.77	70.60	64.93	62.24	55.50	44.84	27.71
1596.3	80.97	76.91	77.5	56.99	62.78	68.47	71.45	72.30	70.76	65.99	61.16	54.75	44.38	27.74
1522.9	81.67	77.61	77.9	56.91	63.43	68.26	71.89	72.67	70.61	64.58	61.99	55.48	45.29	29.04
1523.1	80.61	76.61	77.2	56.91	62.48	68.16	71.15	71.81	69.78	65.86	61.29	54.95	44.80	28.80
1505.7	80.61	76.71	77.3	57.18	62.45	68.05	71.31	71.02	69.49	64.97	61.42	55.02	45.05	29.20
1500.0	80.11	76.21	76.8	56.88	62.34	67.80	70.45	71.45	69.40	64.74	61.20	54.81	44.86	29.06
1505.7	79.01	75.81	76.5	56.81	62.49	67.80	70.64	71.02	68.94	64.94	60.69	54.99	44.32	28.47
1523.1	79.41	75.41	76.8	56.88	61.72	66.72	69.84	70.76	68.79	65.83	60.88	54.82	43.97	27.97
1522.9	79.21	75.11	76.7	56.52	61.65	66.49	69.13	70.34	68.40	64.84	60.25	53.74	43.55	27.10
1506.9	78.11	74.11	76.7	55.67	60.58	65.72	68.58	69.24	67.41	63.76	59.13	52.52	42.13	25.51
1655.1	77.01	73.01	74.1	52.34	59.82	65.44	67.97	68.56	64.80	63.41	58.71	51.98	41.31	24.19

RUN NUMBER	= 103.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 524.000
SECONDARY TEMPERATURE (R)	= 524.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 1.000
VELOCITY RATIO	= 1.000
PRIMARY VELOCITY (FT/SEC)	= 803.542
MASS FLOW RATIO	= .932
PRIMARY MASS FLOW (LBS/SEC)	= .217
THRUST (LBS)	= 4.932
ENVIRONMENTAL TEMPERATURE (R)	= 523.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.810
ENVIRONMENTAL HUMIDITY (PER CENT)	= 67.000
CALIBRATION FACTOR INV TO DY/SD (CM)	= .007
INSTRUMENTATION NOISE FLOOR (DB)	= 46.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR POUL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.15353E-01	120.6	THRUST	POWER LEVEL (DB)
500	1.30187E-03	101.1	10000	150.6
1000	7.30225E-03	108.6	20000	153.7
2000	2.53555E-02	114.0	40000	156.7
4000	3.12544E-02	114.9	80000	159.7
8000	2.74616E-02	114.4		
16000	1.60264E-02	112.0		
31500	6.65123E-03	109.2		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	80.5	88.4	92.5	87.6	82.5	76.3	71.6	95.7
20.0	79.6	87.8	92.5	90.4	84.2	78.0	73.6	95.9
25.0	77.8	86.1	91.6	90.6	86.0	79.9	75.1	95.5
30.0	75.8	84.5	89.9	90.2	87.4	82.0	77.4	95.0
35.0	74.6	82.3	88.1	89.1	87.8	83.4	78.1	94.1
40.0	72.9	80.6	86.7	88.5	87.0	83.1	78.5	93.4
45.0	71.3	78.8	84.9	87.2	87.3	84.7	80.4	92.9
50.0	70.2	77.6	84.1	86.3	86.6	84.6	80.5	92.0
55.0	69.7	76.7	82.9	85.2	85.8	84.0	80.6	91.2
60.0	69.8	76.0	82.0	84.5	85.2	83.4	79.9	90.6
65.0	69.8	76.1	81.6	84.4	85.1	83.2	80.2	90.5
70.0	69.4	75.6	80.9	83.8	84.4	83.0	79.6	89.9
75.0	68.7	75.3	81.0	83.7	84.1	82.6	79.3	89.6
80.0	68.6	74.5	80.5	82.9	83.6	82.0	78.5	89.0
85.0	68.3	74.5	80.1	83.0	83.8	81.8	78.1	89.0
90.0	68.0	74.2	79.7	82.2	83.4	81.5	78.0	88.6
95.0	67.3	74.2	80.1	81.9	83.3	81.7	78.1	88.6
100.0	66.4	73.6	79.5	81.5	82.7	81.2	77.6	88.0
105.0	65.5	73.0	79.5	81.4	82.3	81.1	77.5	87.8
110.0	65.5	72.6	78.9	81.0	81.0	81.0	76.7	87.4
115.0	65.5	72.2	78.7	80.6	81.5	80.9	76.5	87.1

MODEL THRUST = 9.932 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	11.1	OCTAVE 22.3	BAND 44.6	SOUND 89.1	PRESSURE 178.3	354.6	LEVELS 702.0	1404.0	2785.6	5571.3	11142.5
5795.4	67.4	66.5	73.9	58.85	66.4A	70.78	67.73	60.23	52.84	45.1A	34.86	16.13	-18.35
4385.7	71.8	70.6	78.6	60.35	68.5	73.20	71.05	64.56	57.39	50.70	42.16	27.2A	-45.41
3549.3	75.2	73.6	77.9	60.41	68.7	73.04	73.13	64.26	61.40	54.82	47.33	34.70	-25.26
3000.0	78.2	76.3	78.9	60.66	68.60	73.03	74.18	71.19	66.17	64.95	52.10	41.02	-10.59
2615.2	79.8	77.7	79.1	59.83	67.59	73.31	74.32	72.74	67.85	61.20	54.90	44.80	-7.9A
2333.6	81.4	78.9	79.8	59.18	66.23	72.87	74.6A	73.94	69.87	61.84	57.00	48.5A	-7.60
2121.3	82.6	79.5	79.8	58.32	65.44	71.93	74.23	74.12	71.13	65.73	60.05	51.29	-13.04
1958.1	83.0	79.9	79.6	57.94	65.17	71.84	73.96	74.15	71.72	64.61	61.14	52.82	-17.05
1831.2	83.2	79.9	79.4	58.04	65.09	71.23	73.49	73.47	71.75	67.39	62.08	54.11	-20.27
1732.1	83.1	79.7	79.2	58.42	64.7A	70.77	73.2A	73.89	71.67	67.25	62.06	54.36	-22.03
1655.1	83.4	80.1	79.5	59.01	65.2A	70.81	73.5A	74.21	71.97	68.02	62.33	55.44	-24.2A
1594.1	83.4	80.0	79.3	58.92	65.17	70.46	73.29	73.41	72.02	67.8A	62.84	55.51	-25.2A
1552.9	83.5	79.9	79.3	58.51	65.03	70.73	73.42	73.70	71.70	67.75	62.79	55.47	-26.9A
1523.1	83.1	79.5	78.8	58.56	64.43	70.43	72.76	73.40	71.47	67.44	62.31	55.1A	-28.02
1505.7	83.0	79.5	78.9	58.31	64.53	70.17	73.00	73.72	71.40	67.01	62.01	54.92	-29.03
1500.0	82.7	79.1	78.4	58.10	64.31	69.71	72.27	73.32	71.15	66.82	61.92	54.85	-30.05
1504.7	82.4	78.1	78.4	57.30	64.21	70.17	71.8A	73.24	71.2A	66.91	62.01	54.92	-30.63
1521.1	82.1	78.5	77.8	58.51	63.59	69.40	71.35	72.51	70.64	67.27	61.34	54.21	-31.65
1552.9	81.7	78.1	77.5	58.79	62.79	69.27	71.11	71.9	70.30	66.00	61.04	53.83	-32.22
150A.1	81.0	77.4	77.8	55.02	62.10	68.47	70.49	71.2A	70.09	64.94	59.92	52.59	-33.32
1654.1	80.4	77.0	76.2	54.71	61.19	67.90	69.77	70.54	69.61	64.3A	59.25	51.7A	-34.00

PUMP NUMBER	= 104.000
AIRIAL POSITION OF PRIMARY WHT, SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (°F)	= 525.000
SECONDARY TEMPERATURE (°F)	= 525.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 1.000
VELOCITY RATIO	= 1.000
PRIMARY VELOCITY (FT/SEC)	= 891.462
MASS FLOW RATIO	= 1.329
PRIMARY MASS FLOW (LB/SEC)	= .715
THRUST (LBS)	= 13.898
ENVIRONMENTAL TEMPERATURE (°F)	= 525.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.790
ENVIRONMENTAL HUMIDITY (PER CENT)	= 67.000
CALIBRATION FACTOR (MV TO DBZ) (CH)	= .013
INSTRUMENTATION NOISE FLOOR (DB)	= 51.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.52823E-01	127.4	THRUST	POWER LEVEL (DB)
500	4.33204E-03	106.4	10000	156.0
1000	2.61476E-02	114.2	20000	159.0
2000	1.11794E-01	120.5	40000	162.0
4000	1.37293E-01	121.4	80000	165.0
8000	1.50649E-01	121.9		
16000	8.37609E-02	119.2		
31500	3.88591E-02	115.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	8000	16000	31500	OVER ALL
15.0	84.4	92.4	95.9	92.5	87.7	83.9	79.0	99.3
20.0	84.3	92.4	96.8	93.7	89.1	85.0	80.9	100.2
25.0	83.3	91.7	96.8	94.8	90.0	86.8	83.6	100.5
30.0	82.1	90.6	96.4	95.5	91.4	88.1	85.4	100.6
35.0	80.6	89.1	94.9	95.1	92.7	89.5	86.3	100.2
40.0	78.9	87.2	93.2	94.4	93.2	90.5	87.2	99.6
45.0	77.6	85.5	92.0	93.9	93.1	91.1	88.0	99.2
50.0	75.8	83.7	90.5	92.8	93.2	91.4	87.9	98.7
55.0	75.4	82.8	88.8	92.3	93.0	91.2	87.6	98.3
60.0	74.6	81.6	89.1	91.6	92.9	91.0	87.7	98.0
65.0	74.7	81.5	89.2	91.4	93.0	90.5	87.4	97.8
70.0	74.0	80.8	89.0	91.2	93.5	90.5	87.4	97.9
75.0	74.2	80.5	88.6	91.0	92.7	90.1	87.0	97.4
80.0	73.7	80.3	87.6	90.3	92.3	89.6	86.8	96.8
85.0	73.5	80.1	87.0	89.4	91.9	89.1	86.4	96.3
90.0	73.3	80.0	87.3	89.4	92.2	89.5	86.1	96.5
95.0	72.7	79.5	87.9	89.8	91.6	89.9	85.3	96.3
100.0	71.9	78.9	88.3	90.0	91.7	89.7	85.3	96.4
105.0	71.4	78.5	88.7	90.3	92.3	89.4	85.0	96.6
110.0	70.5	77.7	88.0	89.7	90.6	88.5	85.0	96.8
115.0	70.3	76.7	87.4	89.4	89.8	88.5	84.3	95.3

MODEL THRUST = 13.898 FULL SCALE THRUST = 20000.000

L	PROB.	OR SPL	13.2	OCTAVE BAND 26.4	52.7	SOUND PRESSURE LEVELS 105.4	210.9	421.8	830.4	1660.7	3295.1	6590.2	13180.5
5795.6	71.81	70.91	76.0	61.25	69.27	72.72	69.12	63.82	59.81	49.84	37.91	16.17	-23.46
4385.7	76.61	75.31	79.3	63.64	71.48	76.04	72.84	67.80	62.55	56.86	45.91	28.73	-1.99
3549.3	80.41	78.81	81.4	64.45	72.78	77.88	75.78	70.71	66.49	61.06	52.59	38.11	12.68
3000.0	83.47	81.41	83.0	64.57	73.20	78.95	77.95	73.57	69.52	64.84	57.22	44.42	22.56
2615.2	86.41	83.41	83.7	64.41	72.88	78.63	78.42	76.11	72.24	67.33	60.31	48.45	29.32
2333.6	87.11	86.61	86.1	63.71	71.96	77.91	79.08	77.62	74.15	69.55	62.95	52.41	36.86
2121.1	88.11	85.51	84.6	63.20	71.88	77.56	79.41	78.45	75.49	71.37	65.10	55.24	38.83
1958.1	89.11	86.11	84.7	62.14	70.46	76.79	78.99	79.27	76.06	72.16	66.14	56.81	41.43
1831.2	89.41	86.41	84.9	62.26	69.71	76.67	79.12	79.63	77.34	72.53	66.71	57.79	43.82
1732.1	89.91	86.71	85.0	62.27	68.99	76.45	78.90	80.08	77.45	73.31	67.64	59.04	45.09
1655.1	90.11	86.91	85.3	62.46	69.23	76.98	79.06	80.53	77.65	73.40	67.85	59.50	46.04
1594.1	90.77	87.41	85.7	62.56	68.88	77.09	79.27	81.32	77.06	73.85	68.39	60.23	47.14
1542.9	90.41	87.11	85.5	62.49	68.79	76.86	79.24	80.78	77.77	73.64	68.26	60.28	47.43
1473.1	90.21	86.81	85.1	62.22	68.80	76.02	78.78	80.63	77.45	73.47	68.13	60.20	47.47
1406.7	89.71	86.41	84.7	62.49	68.71	75.59	77.96	80.10	77.10	72.82	67.40	59.63	47.12
1300.0	90.21	86.61	84.9	61.89	68.44	75.85	77.90	80.41	77.51	73.10	67.80	60.03	47.55
1205.7	89.51	86.11	84.6	61.24	68.47	76.47	78.14	79.94	76.41	72.34	67.02	59.15	46.83
1121.1	89.61	86.11	84.6	60.38	68.73	76.81	78.49	79.97	76.44	72.22	66.87	58.45	46.32
1042.9	89.31	86.21	84.7	60.74	68.83	76.96	78.45	80.40	76.14	71.66	66.27	58.25	45.44
998.1	88.21	84.91	83.4	60.57	68.00	76.04	77.71	78.38	75.01	71.38	65.92	57.74	44.87
955.1	87.51	84.31	82.8	59.09	66.44	75.19	77.00	77.30	75.46	70.30	64.75	56.40	42.94

RUN NUMBER	106.000
AXIAL POSITION W. PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (°F)	522.300
SECONDARY TEMPERATURE (°F)	522.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	2.007
VELOCITY RATIO	1.344
PRIMARY VELOCITY (FT/SEC)	830.945
MASS FLOW RATIO	1.001
PRIMARY MASS FLOW (LBS/SEC)	2.215
THRUST (LBS)	8.198
ENVIRONMENTAL TEMPERATURE (°F)	523.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.910
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (W. TO PZYST C4)	0.006
INSTRUMENTATION NOISE FLOOR (DB)	44.574

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	5.45874E-02	117.7		
500	7.76628E-04	98.9	10000	148.5
1000	3.92390E-03	105.9	20000	151.6
2000	1.34362E-02	111.3	40000	154.6
4000	1.75681E-02	112.4	60000	157.6
8000	1.38330E-02	111.4		
16000	6.46656E-03	103.1		
31500	2.64790E-03	100.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	SOUND PRESSURE LEVELS 2000	4000	8000	16000	31500	OVER ALL
15.0	77.9	85.4	89.4	87.3	81.8	73.2	66.9	73.2
20.0	77.3	84.9	89.9	88.1	83.0	75.2	69.1	73.5
25.0	76.0	83.5	89.2	86.7	80.7	72.6	67.3	73.4
30.0	74.8	82.4	87.7	85.4	79.4	71.4	66.7	72.9
35.0	72.7	80.5	86.2	83.8	76.4	68.4	64.6	72.5
40.0	71.2	78.7	84.4	81.5	74.0	66.0	62.9	71.5
45.0	69.6	76.3	82.3	79.2	71.9	63.9	60.3	70.3
50.0	67.9	74.8	80.9	77.5	69.2	61.6	58.5	69.5
55.0	67.2	73.5	80.1	76.4	68.2	60.8	57.1	68.5
60.0	67.2	72.9	78.9	75.1	67.3	59.0	56.7	67.6
65.0	66.7	72.5	78.2	74.3	66.4	58.3	55.7	66.9
70.0	66.3	72.2	77.6	73.5	65.1	57.8	55.3	66.4
75.0	66.6	71.8	76.9	72.8	64.2	56.8	54.9	65.6
80.0	66.5	71.5	76.6	72.5	63.6	56.4	54.1	65.1
85.0	65.6	71.3	76.2	72.0	62.9	55.9	53.4	64.5
90.0	65.3	70.7	75.6	71.3	62.3	55.3	52.8	64.1
95.0	64.4	70.4	75.6	71.7	61.7	54.9	52.9	63.7
100.0	64.3	70.6	74.7	71.3	61.6	54.2	52.3	63.1
105.0	64.0	70.2	74.8	71.0	61.2	54.0	52.0	62.8
110.0	62.8	69.8	74.1	70.2	60.6	53.6	51.2	62.3
115.0	63.0	69.4	73.8	70.8	60.9	53.6	51.1	61.7

MODEL THRUST = 8.198 FULL SCALE THRUST = 20000.000

L	PNDR.	OSPL	OCTAVE BAND 10.1	20.2	40.5	81.0	162.0	323.9	LEVELS 637.8	1275.5	2550.8	5061.5	10123.1
5795.6	64.9	64.1	72.2	57.08	66.52	68.99	66.29	60.47	50.85	41.93	32.41	15.21	-16.59
4385.7	69.4	68.2	75.0	58.85	66.51	71.44	69.86	64.23	54.84	47.49	39.56	25.81	1.02
3549.3	73.2	71.7	76.0	59.47	68.92	72.62	72.05	67.74	60.11	52.71	45.22	33.52	12.89
3000.0	76.0	74.2	77.7	59.73	67.25	72.52	71.26	70.34	63.41	54.40	50.02	39.67	21.76
2614.2	78.1	76.1	78.4	58.83	68.60	72.27	73.44	72.21	66.74	59.77	51.83	44.42	28.43
2333.8	79.4	76.8	78.4	58.28	68.72	71.46	73.55	72.88	68.47	62.38	56.67	47.08	33.35
2121.3	79.9	76.9	78.0	57.12	68.24	70.20	73.00	72.69	68.25	63.71	58.34	50.15	36.61
1958.1	80.3	77.1	77.9	56.48	67.43	69.45	72.71	72.68	68.53	64.71	59.51	51.71	38.08
1831.2	80.1	76.9	77.5	56.34	68.64	69.29	72.01	72.25	69.51	66.88	62.45	52.45	40.35
1732.1	80.2	76.6	77.2	56.83	68.54	68.58	71.72	71.80	68.19	65.14	60.19	52.94	41.34
1655.1	79.9	76.2	76.8	56.78	68.60	68.22	71.35	71.36	68.49	65.87	60.71	52.64	41.43
1594.3	79.8	76.1	76.4	56.63	68.53	67.08	70.95	71.36	68.71	65.51	60.72	52.41	41.48
1552.9	79.4	75.6	76.1	57.22	68.45	67.44	70.62	70.69	68.22	65.34	60.60	52.40	42.08
1523.1	78.9	75.1	75.4	57.27	68.24	67.11	70.22	70.20	67.76	64.76	59.05	52.32	41.76
1505.7	78.4	74.6	75.3	56.52	68.17	67.07	69.30	69.77	67.24	64.20	58.51	51.88	41.34
1500.0	78.0	74.2	74.9	56.16	67.62	66.54	69.13	69.38	66.81	63.06	58.17	51.70	41.25
1504.7	77.4	73.7	74.5	55.29	67.43	66.42	68.45	68.44	66.19	62.66	57.94	51.24	40.79
1533.1	76.8	72.9	73.8	55.64	67.17	65.45	68.01	68.20	65.64	61.87	57.25	50.42	39.94
1547.9	76.1	72.6	73.4	54.57	66.77	65.44	67.53	67.66	65.04	61.47	56.73	49.92	39.20
1594.1	75.4	71.9	72.6	53.17	66.20	64.49	66.52	66.85	64.74	61.41	56.51	49.70	38.77
1659.1	74.5	70.7	71.2	53.03	65.46	63.83	65.84	65.77	63.55	59.98	55.11	48.06	38.46

RUN NUMBER	107.00 (705.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	574.000
SECONDARY TEMPERATURE (R)	574.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	2.007
VELOCITY RATIO	.700
PRIMARY VELOCITY (FT/SEC)	892.690
MASS FLOW RATIO	1.994
PRIMARY MASS FLOW (LB/SEC)	.208
THRUST (LBS)	11.835
ENVIRONMENTAL TEMPERATURE (R)	518.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.900
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (W/TO DY75J 23)	.006
INSTRUMENTATION NOISE FLOOR (DB)	45.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.60049E-02	118.2	THRUST	POWER LEVEL (DB)
500	2.41659E-03	103.8	10000	146.8
1000	9.35526E-03	109.6	20000	149.8
2000	2.05535E-02	113.1	40000	152.4
4000	1.76616E-02	112.5	80000	155.8
8000	1.02450E-02	110.1		
16000	4.21014E-03	106.0		
31500	1.66274E-03	102.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	83.5	88.8	89.8	84.0	75.6	68.3	65.9	73.3
20.0	82.5	88.2	90.5	86.0	77.8	69.4	67.0	73.9
25.0	81.6	87.8	90.6	87.4	79.7	71.4	67.9	74.1
30.0	80.0	86.5	90.6	87.9	82.2	74.3	69.8	73.6
35.0	77.7	84.7	88.3	87.4	83.5	76.8	72.0	72.7
40.0	76.0	82.4	86.0	86.8	84.1	78.3	73.0	71.0
45.0	73.7	80.4	85.1	85.7	83.7	79.0	74.0	70.7
50.0	72.7	79.3	84.1	84.8	83.2	79.8	74.8	69.0
55.0	71.7	78.0	82.6	83.6	82.3	78.6	74.2	68.6
60.0	71.3	77.3	81.6	82.7	81.7	78.3	74.3	68.1
65.0	71.0	76.5	80.8	82.1	81.0	77.6	73.4	67.3
70.0	70.4	76.0	80.1	81.4	80.6	77.1	73.1	66.8
75.0	71.1	75.1	79.6	80.0	80.0	76.7	73.1	66.3
80.0	69.5	74.6	78.8	80.2	79.3	76.2	72.6	65.6
85.0	69.6	74.8	78.6	79.7	78.8	75.7	72.5	65.3
90.0	69.3	74.3	78.3	79.4	78.4	75.6	72.1	64.9
95.0	69.4	73.7	77.0	78.7	78.1	75.0	72.0	64.5
100.0	68.1	73.6	77.2	78.1	77.7	74.9	72.2	64.8
105.0	68.0	73.1	76.7	78.0	77.1	74.6	71.1	63.6
110.0	67.5	72.6	76.4	77.2	76.7	74.1	71.3	63.1
115.0	66.9	72.1	75.8	76.5	76.2	73.5	71.0	62.6

MODEL THRUST = 13.835 FULL SCALE THRUST = 20000.000

CO	PHOS	OASPL	13.2	OCTAVE 24.3	BAND 52.0	SOUND 105.2	PRESSURE 210.4	LEVELS 420.8	840.0	1680.0	3360.0	6720.0	13440.0
5785.4	61.01	40.31	70.1	40.37	65.10	66.45	60.46	61.76	47.49	36.75	24.85	3.15	-34.41
4344.7	66.11	44.11	73.1	41.80	67.51	68.76	65.13	64.40	48.48	37.73	25.00	14.45	-15.41
3540.4	69.91	49.71	74.2	42.74	68.95	71.72	68.40	60.40	51.14	40.42	28.42	22.42	-18.41
3000.4	72.71	51.31	76.1	42.48	69.07	72.17	70.41	64.43	55.73	48.37	31.47	24.47	-20.16
2614.2	74.31	53.11	76.4	41.44	64.52	72.05	71.17	64.44	50.43	43.10	34.44	26.44	-18.41
2333.4	76.51	54.41	78.5	40.42	67.76	71.46	71.55	67.58	47.77	45.71	40.71	38.71	-15.31
2121.1	77.21	54.01	76.1	40.32	64.35	71.48	71.29	60.03	47.77	47.39	41.17	41.17	-1.50
1444.1	77.81	55.21	76.1	49.06	65.57	70.37	71.47	69.48	44.73	48.04	43.04	41.73	-3.60
1031.2	77.71	54.01	78.5	48.56	64.44	69.44	70.40	69.01	44.41	44.74	43.43	43.43	0.00
7731.2	77.41	54.01	74.3	48.44	64.73	69.40	70.40	68.77	45.15	48.02	45.28	45.28	0.00
1444.1	77.41	54.01	75.0	44.77	64.34	69.40	69.77	69.00	44.42	44.44	41.02	41.02	0.00
1544.2	77.81	54.41	74.7	48.42	64.04	68.74	69.44	68.41	45.41	47.51	44.00	44.00	0.00
1544.0	77.31	54.11	74.4	49.40	63.14	67.42	69.35	68.09	44.42	48.42	44.43	44.43	0.00
1523.1	76.41	53.41	74.0	47.07	63.14	67.44	68.04	67.05	44.42	48.42	44.43	44.43	0.00
1509.7	76.51	53.21	73.7	46.14	63.40	67.21	68.29	67.17	43.49	48.40	44.43	44.43	0.00
1000.0	74.71	52.01	73.6	47.01	62.44	68.47	67.94	66.46	43.44	48.20	44.43	44.43	0.00
1444.7	74.41	52.41	72.9	47.04	62.17	68.43	67.94	66.41	43.42	48.04	44.43	44.43	0.00
1423.1	75.41	52.11	72.8	46.47	62.11	68.44	68.44	67.07	43.42	48.04	44.43	44.43	0.00
1454.0	74.71	51.41	71.9	44.34	61.44	68.42	68.20	66.24	42.77	48.01	44.43	44.43	0.00
1444.3	74.11	50.71	71.1	45.40	60.74	68.44	67.23	66.40	41.43	47.72	44.43	44.43	0.00
1459.1	73.21	49.71	70.2	44.48	60.48	68.44	66.94	65.01	40.40	47.05	43.21	43.21	0.00

RUN NUMBER	100.00 (722.00)
AIRAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	0.030
PRIMARY TEMPERATURE (RI)	521.033
SECONDARY TEMPERATURE (RI)	526.000
PRIMARY PRESSURE RATIO	1.440
AREA RATIO	2.047
VELOCITY RATIO	1.001
PRIMARY VELOCITY (FT/SEC)	801.814
MASS FLOW RATIO	2.010
PRIMARY MASS FLOW (LBS/SEC)	0.213
THRUST (LBS)	21.346
ENVIRONMENTAL TEMPERATURE (RI)	523.000
ENVIRONMENTAL PRESSURE (IN.HG)	24.700
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/SEC CM)	0.025
INSTRUMENTATION NOISE FLOOR (NR)	57.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	1.17976E+00	170.7	THRUST 10000 157.4
500	1.43432E-02	111.6	20000 160.4
1000	1.06312E-01	120.3	40000 163.4
2000	3.08393E-01	125.9	80000 166.5
4000	2.55700E-01	124.1	
8000	2.27702E-01	123.6	
16000	1.24438E-01	121.1	
31500	5.98713E-02	117.8	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.0	98.8	99.2	93.9	89.1	86.1	84.6	103.2
20.0	89.8	98.8	100.9	96.1	92.1	88.5	84.2	106.4
25.0	88.5	98.4	102.0	98.1	94.3	90.2	87.1	105.3
30.0	87.1	97.2	101.8	98.9	95.7	92.1	89.9	105.4
35.0	85.4	95.2	101.4	99.5	97.2	93.3	89.6	105.4
40.0	83.0	92.5	99.4	98.4	97.3	93.7	89.1	104.2
45.0	80.9	90.0	98.3	97.3	96.9	94.1	90.4	103.4
50.0	79.4	88.2	97.9	96.1	96.2	94.1	90.5	102.8
55.0	78.9	87.1	96.7	94.8	95.3	93.5	90.4	101.8
60.0	79.6	86.9	96.5	94.1	95.0	93.1	89.6	101.4
65.0	79.7	87.1	95.5	93.8	94.4	92.2	88.6	100.7
70.0	80.0	87.3	94.7	93.1	93.7	91.6	88.7	100.1
75.0	80.7	87.5	93.3	93.0	93.4	91.5	88.6	99.6
80.0	80.1	87.2	93.0	92.7	93.0	90.9	87.7	99.2
85.0	80.7	86.8	92.2	92.3	92.6	90.4	87.3	98.7
90.0	79.4	86.4	91.7	91.9	92.3	90.3	86.9	98.6
95.0	78.9	85.6	91.5	91.4	92.3	90.1	86.6	98.1
100.0	78.3	85.2	91.2	90.5	91.7	89.3	86.2	97.5
105.0	77.3	83.7	90.7	90.5	91.4	89.5	86.2	97.2
110.0	76.5	83.0	90.2	90.3	90.9	88.8	85.3	96.7
115.0	75.6	82.0	89.1	89.9	90.7	89.2	85.4	96.4

MODEL THRUST = 21.346 FULL SCALE THRUST = 20000.000

L.	PROR.	DISPL	16.3	OCTAVE 32.7	BAND 65.3	SOUND 130.7	PRESSURE 261.4	LEVELS 522.7	1045.1	2090.2	4083.7	8167.4	16334.7
5785.6	73.51	72.71	78.0	64.98	73.80	74.13	68.56	62.99	57.95	51.52	37.12	10.88	-36.18 -114.14
4385.7	79.11	78.11	81.7	67.23	76.24	78.30	73.28	68.68	63.60	57.49	45.86	25.27	-11.05 -70.76
3549.3	83.41	82.21	84.4	67.73	77.62	81.24	77.19	72.93	67.52	61.43	51.45	34.72	4.23 -44.67
3080.0	86.41	84.91	85.9	67.45	77.93	82.51	79.36	75.09	71.20	65.62	56.51	41.44	15.67 -24.12
2615.2	88.71	87.01	87.0	67.28	77.88	83.26	81.28	76.64	71.90	67.04	59.70	44.21	23.32 -13.49
2323.5	89.87	87.71	86.8	65.91	75.41	82.38	81.19	76.22	71.39	66.76	62.17	44.41	29.05 -11.11
2123.3	90.31	88.11	86.8	64.44	73.70	81.99	80.98	76.24	71.74	67.17	63.49	52.49	33.35 -2.92
1958.1	90.81	88.21	86.9	63.43	72.61	82.34	80.64	76.23	71.45	67.25	63.60	54.55	36.66 5.36
1831.7	90.81	88.01	86.5	63.93	72.88	81.74	79.72	75.44	71.47	67.45	63.25	55.98	38.98 12.38
1732.1	90.91	88.11	86.6	65.13	72.41	81.99	79.47	76.15	72.71	68.31	64.31	56.36	40.16 14.79
1645.1	90.91	87.91	86.3	65.44	73.01	81.34	78.48	75.07	71.14	67.14	63.43	54.20	40.71 15.29
1596.1	90.51	87.51	86.0	66.14	73.64	80.85	78.36	74.58	70.67	66.72	62.45	57.17	42.04 16.39
1557.9	90.51	87.61	85.4	67.14	73.92	79.77	77.14	73.44	69.44	65.44	61.43	57.40	42.79 19.71
1523.1	90.21	87.31	85.5	66.69	73.74	79.62	76.76	73.35	69.47	65.23	60.23	57.12	47.54 19.66
1505.7	89.91	87.01	85.1	66.19	73.47	78.83	76.89	73.04	69.44	65.44	61.43	57.12	47.54 19.66
1500.0	89.91	86.71	85.1	66.19	73.12	78.67	76.89	73.04	69.44	65.44	61.43	57.12	47.54 19.66
1505.7	89.91	86.61	84.4	65.43	72.27	78.20	76.84	73.74	69.47	65.23	60.23	57.12	47.54 19.66
1497.1	89.67	86.81	83.8	64.89	71.88	77.82	76.87	73.86	69.47	65.23	60.23	57.12	47.54 19.66
1557.9	89.71	85.31	83.4	63.73	70.17	77.13	76.48	73.49	69.13	64.44	60.49	55.96	48.45 17.37
1504.1	87.71	84.61	82.4	62.71	69.23	76.43	74.44	70.77	66.11	60.20	53.74	48.61	48.61 17.37
1455.1	86.41	83.81	81.9	61.54	67.87	75.00	73.33	69.21	64.00	58.74	53.10	47.52	47.52 13.12

RUN NUMBER	100.000
AXIAL POSITION OF PRIMARY WPT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (°F)	520.000
SECONDARY TEMPERATURE (°F)	520.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	2.000
VELOCITY RATIO	1.150
PRIMARY VELOCITY (FT/SEC)	800.000
MASS FLOW RATIO	3.250
THRUST (LBS)	2000
ENVIRONMENTAL TEMPERATURE (°F)	26.950
ENVIRONMENTAL PRESSURE (IN.HG)	521.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.700
CALCULATION FACTOR (40 TO 100) (C)	50.000
INSTRUMENTATION NOISE FLOOR (DB)	0.032
	50.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.90062E+00	133.0	THRUST	POWER LEVEL (DB)
500	1.90041E-02	112.8	10000	150.7
1000	1.16610E-01	120.7	20000	161.7
2000	3.71457E-01	125.7	40000	164.7
4000	9.91633E-01	129.0	80000	167.7
8000	5.20034E-01	127.2		
16000	3.11258E-01	124.7		
31500	1.43905E-01	121.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	91.0	98.3	100.0	97.4	94.3	90.7	87.8	104.7
20.0	91.3	99.3	102.1	99.4	96.8	92.4	88.9	106.2
25.0	90.2	99.1	103.1	100.0	98.3	94.8	91.1	107.2
30.0	88.3	97.3	102.4	101.7	99.5	96.3	92.9	107.3
35.0	87.1	95.0	102.0	102.2	100.9	97.3	93.4	107.5
40.0	86.4	93.7	99.8	101.5	101.0	97.0	94.2	106.8
45.0	82.7	91.5	97.0	100.7	101.2	98.4	94.5	106.3
50.0	81.8	89.5	95.9	98.6	99.7	97.9	94.3	104.0
55.0	80.0	87.7	94.2	97.6	99.0	97.0	94.2	103.0
60.0	80.9	87.3	93.3	97.1	98.2	96.4	93.3	103.2
65.0	80.3	86.8	93.1	96.4	97.9	95.9	93.0	102.8
70.0	80.6	86.6	92.9	96.0	97.3	95.3	92.4	102.3
75.0	80.6	87.0	92.5	95.9	97.0	95.1	92.0	102.1
80.0	80.4	86.5	91.9	95.1	96.1	94.2	91.0	101.2
85.0	80.4	86.4	92.0	94.7	96.0	94.2	91.1	101.1
90.0	79.7	86.1	91.6	94.7	96.0	93.9	90.6	100.9
95.0	79.1	85.6	91.2	94.2	95.7	93.9	90.6	100.7
100.0	78.0	85.6	90.7	93.5	95.5	93.4	90.0	100.2
105.0	77.6	84.8	90.8	93.2	94.6	93.1	89.9	99.8
110.0	76.9	83.7	90.0	93.4	94.4	93.1	89.7	99.6
115.0	76.2	83.0	89.4	92.6	94.2	92.6	88.8	99.1

MODEL THRUST = 26.956 FULL SCALE THRUST = 20000.000

L	PNDR	ORSP	OCTAVE		BAND		SOUND		PRESSURE		LEVELS			
			10.4	30.7	73.4	146.8	293.7	587.4	1156.4	2312.9	4580.0	9178.0	18356.1	
5795.6	76.41	75.01	78.3	65.77	72.28	74.43	70.93	66.98	61.03	52.17	38.19	7.16	-44.37	-120.40
4385.7	91.91	91.01	92.3	67.68	75.65	78.45	75.53	72.20	66.18	55.22	45.40	22.70	-17.03	-01.41
3549.3	85.91	84.01	85.1	68.49	77.33	81.26	78.84	75.75	70.76	63.60	52.65	33.71	.00	-51.49
3000.0	88.71	87.31	86.6	68.06	77.05	82.01	81.25	78.57	74.07	67.75	58.03	41.56	13.43	-31.96
2615.2	91.11	89.51	90.0	68.01	76.74	82.01	82.07	81.70	76.58	70.02	61.17	46.42	21.52	-14.00
2333.4	92.21	90.91	89.2	68.32	75.47	81.68	83.10	82.41	78.31	72.35	64.16	50.46	28.12	-7.58
2121.1	93.21	91.21	90.4	65.41	74.24	80.54	83.25	83.42	79.80	73.76	66.01	53.48	32.72	.02
1954.1	92.91	90.61	87.7	65.76	72.92	79.28	81.92	82.73	80.10	74.50	67.70	55.41	34.01	4.40
1831.2	92.91	90.31	87.3	63.99	71.72	78.22	81.50	82.56	79.84	74.20	68.10	56.87	34.54	9.91
1732.1	92.91	90.21	87.2	65.39	71.77	77.80	81.49	82.35	79.74	74.93	69.66	57.28	39.77	12.43
1655.1	92.91	90.21	87.1	65.14	71.72	77.99	81.12	82.37	79.70	74.70	69.50	58.06	41.20	15.04
1596.1	92.71	90.01	87.0	65.94	71.76	78.88	81.00	82.10	79.51	74.97	69.39	58.22	41.86	14.51
1552.9	92.71	90.01	87.1	66.04	72.40	77.94	81.10	82.11	79.57	74.93	68.46	56.88	42.48	17.74
1523.1	92.11	89.31	86.4	65.99	72.10	77.51	80.57	81.36	78.86	74.17	67.76	57.92	43.17	17.45
1505.7	92.11	89.11	86.4	66.09	72.44	77.70	80.31	81.38	78.94	74.34	67.99	58.23	42.62	18.55
1500.0	92.01	89.21	86.2	65.44	71.84	77.27	80.28	81.37	78.66	73.94	67.59	57.95	42.20	18.20
1505.7	91.71	89.01	85.9	64.82	71.13	76.88	79.75	81.05	78.67	73.83	67.66	57.70	42.00	18.02
1523.1	91.11	88.41	85.2	64.41	71.10	76.32	78.94	80.74	78.77	73.14	67.73	58.99	41.77	14.42
1552.9	90.01	87.61	84.8	63.00	70.27	76.24	78.55	79.71	77.59	72.84	66.37	54.48	40.39	15.44
1546.3	89.41	87.11	84.3	62.86	69.87	75.17	78.44	79.27	77.24	72.32	65.74	55.57	39.21	13.46
1655.1	88.91	86.31	83.5	61.14	67.94	74.20	77.58	78.67	76.60	70.95	64.25	53.81	36.95	10.79

BLIN NUMBER	= 110.00	-(706.00)
AXIAL POSITION OF PRIMARY VOT, SECONDARY (INS.)	= 0.000	
PRIMARY TEMPERATURE (R)	= 523.000	
SECONDARY TEMPERATURE (R)	= 574.000	
PRIMARY PRESSURE RATIO	= 1.000	
AREA RATIO	= 1.054	
VELOCITY RATIO	= 0.347	
PRIMARY VELOCITY (FT/SEC)	= 801.830	
MASS FLOW RATIO	= 1.031	
PRIMARY MASS FLOW (LB/SEC)	= 0.722	
THRUST (LBS)	= 9.011	
ENVIRONMENTAL TEMPERATURE (R)	= 522.500	
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700	
ENVIRONMENTAL HUMIDITY (PER CENT)	= 50.000	
CALIBRATION FACTOR (MV TO DY/50 CM)	= 0.004	
INSTRUMENTATION NOISE FLOOR (DB)	= 144.574	

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
			THRUST	POWER LEVEL (DB)
OVERALL	3.86757E-02	115.9	10000	146.0
			20000	149.1
			40000	152.1
			80000	155.1
500	1.04029E-03	100.2		
1000	4.16997E-03	106.2		
2000	1.30298E-02	111.1		
4000	1.02408E-02	110.1		
8000	6.43157E-03	108.1		
16000	2.57492E-03	104.1		
31500	1.18827E-03	100.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	78.7	84.8	88.3	83.7	75.4	66.0	65.5	71.2
20.0	78.3	85.1	89.1	85.2	77.7	67.6	65.8	72.1
25.0	76.9	83.6	88.7	85.8	80.1	70.5	66.9	71.8
30.0	76.0	82.4	87.6	85.5	81.2	73.3	68.5	71.1
35.0	74.7	80.6	86.1	85.4	82.5	75.7	70.4	70.5
40.0	72.5	78.7	84.6	84.3	82.5	77.4	72.4	69.5
45.0	71.3	77.3	83.6	83.4	82.3	74.1	73.4	68.9
50.0	70.1	76.1	81.7	82.1	81.2	77.6	73.7	67.6
55.0	69.4	74.6	80.6	81.0	80.3	77.0	73.4	66.6
60.0	68.8	73.8	79.6	80.0	79.4	76.3	72.7	65.7
65.0	68.5	73.0	79.0	79.4	78.7	75.0	72.7	65.2
70.0	67.8	73.2	78.1	78.7	78.1	75.1	72.0	64.4
75.0	67.5	72.5	77.3	78.0	77.3	74.3	71.6	63.7
80.0	67.2	72.1	76.8	77.7	76.8	73.9	71.0	63.3
85.0	66.8	71.4	76.3	76.9	76.2	73.4	70.8	62.7
90.0	66.9	71.8	76.0	76.6	75.0	73.0	70.5	62.4
95.0	66.0	71.8	75.2	75.8	75.1	72.3	70.1	61.7
100.0	65.6	70.9	74.9	75.1	74.7	72.0	69.8	61.3
105.0	65.3	70.5	74.3	74.7	74.1	71.5	69.3	60.8
110.0	64.3	70.0	74.0	74.3	73.7	70.9	68.9	60.4
115.0	63.5	69.3	73.3	73.7	73.2	70.8	68.9	59.8

MODEL THRUST = 9.011 FULL SCALE THRUST = 20000.000

L.	PNDP.	OASPL	11.0	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	11.0	21.9	42.8	67.7	175.4	350.7	690.5	1381.0	2740.1	5480.3	10960.5
5795.6	68.31	59.31	69.6	57.22	63.28	60.74	61.96	53.30	42.77	39.35	29.17	10.71	-21.30	-42.20					
4305.7	65.21	64.01	72.4	59.23	66.04	69.94	60.02	58.19	47.00	43.12	34.66	19.99	-6.48	-51.78					
3549.3	68.41	67.21	74.5	59.59	66.36	71.46	68.42	62.48	52.16	46.82	39.42	26.95	4.94	-32.27					
3000.0	71.41	69.71	75.3	60.24	66.40	71.76	69.62	65.06	54.59	50.24	43.53	32.52	13.47	-18.67					
2612.2	74.01	72.01	75.8	60.65	65.94	71.49	70.73	67.59	60.36	57.68	47.44	37.47	20.48	-7.75					
2333.4	74.51	73.21	75.4	61.90	66.03	71.01	70.64	68.45	63.12	60.69	51.00	41.77	24.20	7.78					
2121.7	76.61	73.91	75.9	61.55	64.66	70.75	70.57	69.31	64.68	61.91	53.28	44.62	30.27	6.41					
1954.1	76.71	73.91	75.3	67.96	69.48	69.93	69.46	64.94	59.90	54.67	46.35	34.47	19.99						
1831.8	76.81	73.61	75.0	67.81	69.13	69.10	69.08	68.61	64.00	60.42	54.15	47.27	19.81						
1732.1	76.41	73.31	74.5	67.70	69.41	68.44	68.48	64.23	64.75	60.25	55.11	47.40	15.51						
1655.1	76.71	73.31	74.6	67.82	69.31	68.35	68.71	64.47	64.47	60.71	55.66	48.24	14.38						
1596.1	76.41	72.91	74.0	67.47	69.40	68.74	68.74	64.31	60.37	56.30	48.14	44.60	14.20						
1552.0	76.01	72.41	73.5	67.40	69.40	67.21	67.43	67.04	61.20	57.23	55.30	48.10	14.09						
1523.1	75.71	72.11	73.3	67.25	69.19	68.99	67.75	66.73	61.50	59.06	54.97	47.91	14.07						
1485.7	75.61	71.71	72.8	67.02	69.47	68.47	67.04	66.74	61.17	58.95	54.99	47.97	14.07						
1508.0	75.01	71.71	72.5	67.04	68.19	66.74	66.88	62.75	59.53	54.67	47.67	47.67	14.04						
1505.7	74.61	70.61	71.8	66.21	68.19	66.19	66.49	64.12	62.67	59.12	54.28	47.24	14.10						
1523.1	73.81	70.11	71.3	65.73	67.02	66.97	66.19	64.63	61.63	58.61	53.73	48.66	14.52						
1552.9	73.11	69.31	70.6	65.17	66.40	66.21	66.58	63.87	60.91	58.01	53.08	48.04	14.64						
1594.3	72.31	68.51	70.0	63.84	65.48	63.64	63.98	63.24	60.00	57.31	52.13	48.07	14.53						
1655.1	71.71	67.91	69.1	62.85	64.68	62.65	63.06	62.61	59.46	54.96	51.98	48.60	14.64						

RUN NUMBER	111.00 (729.00)
RELATIVE POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	521.000
SECONDARY TEMPERATURE (R)	524.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	4.840
VELOCITY RATIO	1.600
PRIMARY VELOCITY (FT/SEC)	801.438
MASS FLOW RATIO	1.750
PRIMARY MASS FLOW (LB/SEC)	220
THRUST (LBS)	22.173
ENVIRONMENTAL TEMPERATURE (R)	522.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	50.000
CALIBRATION FACTOR TWR TO DY/SEC CM	0.000
INSTRUMENTATION NOISE FLOOR (DB)	47.576

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	7.59328E-02	118.8	THRUST	POWER LEVEL (DB)
500	4.95760E-03	107.0	10000	145.3
1000	1.43835E-02	111.6	20000	148.4
2000	2.37575E-02	113.8	40000	151.4
4000	1.70573E-02	112.3	80000	154.4
8000	9.79556E-03	109.9		
16000	4.04700E-03	106.1		
31500	1.93430E-03	102.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	81.2	89.8	88.4	81.4	73.8	68.4	67.1	92.8
20.0	85.7	90.0	89.7	83.6	76.0	70.3	68.5	94.1
25.0	84.9	89.0	89.8	85.6	78.6	72.3	68.9	94.0
30.0	83.3	87.6	89.5	86.3	80.9	74.6	71.5	93.6
35.0	81.5	86.2	86.5	86.6	82.5	76.9	72.8	93.0
40.0	80.1	84.3	87.6	86.3	83.5	78.6	74.1	92.3
45.0	77.8	82.9	86.3	85.6	83.2	78.7	74.7	91.3
50.0	77.1	81.7	85.5	84.9	82.6	78.5	74.9	90.6
55.0	75.8	80.7	84.5	83.8	82.3	78.5	74.9	89.8
60.0	75.3	80.2	83.7	83.5	81.7	78.0	74.6	89.2
65.0	75.3	79.5	82.9	82.7	81.0	77.7	74.6	88.6
70.0	74.3	78.9	82.3	82.5	81.0	77.4	74.1	88.2
75.0	74.3	78.3	81.8	81.9	80.4	77.1	73.9	87.7
80.0	73.8	77.8	81.2	81.4	79.8	76.4	73.5	87.1
85.0	73.7	77.4	80.4	80.6	79.3	76.3	73.3	86.5
90.0	72.6	77.0	80.3	80.3	78.9	75.7	73.0	86.2
95.0	72.4	76.4	79.6	79.7	78.5	75.2	72.5	85.6
100.0	72.2	76.2	79.1	79.2	77.9	74.9	72.3	85.2
105.0	71.4	75.5	78.6	78.7	77.5	74.6	72.2	84.7
110.0	71.2	75.0	78.2	78.4	77.2	74.1	71.9	84.4
115.0	69.8	74.5	77.2	77.9	76.6	73.9	71.8	83.8

MODEL THRUST = 22.173 FULL SCALE THRUST = 20000.000

L.	PROB.	OR SPL	10.6	OCTAVE 33.3	BAND 66.6	SOUND 133.2	PRESSURE 266.4	LEVELS 532.7	1060.8	2097.7	4162.0	8324.1	16648.1
5795.6	58.2 (47.6)	67.5	56.03	64.45	63.10	55.88	47.36	40.04	33.70	19.06	-7.62	-55.41	-134.33
4305.7	63.9 (43.1)	71.3	62.92	67.28	64.91	60.57	52.42	45.16	39.55	27.74	6.42	-30.07	-90.53
3549.1	68.0 (47.0)	73.1	63.97	68.14	68.89	64.51	57.02	49.40	43.98	33.85	14.35	-14.08	-63.58
3000.0	70.8 (49.5)	74.0	63.90	68.11	70.83	66.71	60.87	53.45	47.75	39.72	23.46	-2.72	-65.82
2615.2	73.1 (51.6)	74.6	63.27	67.95	70.25	66.19	63.78	57.17	50.78	42.53	28.84	5.44	-51.83
2333.4	74.9 (53.3)	74.4	62.88	64.99	70.31	68.48	65.78	60.09	53.51	45.84	33.31	17.24	-21.79
2121.3	75.7 (53.7)	74.7	61.33	64.44	64.81	64.03	66.41	61.84	55.22	47.96	36.29	16.94	-13.40
1958.1	76.0 (53.9)	74.7	61.33	64.01	64.76	64.02	64.49	61.70	56.36	49.42	39.42	20.79	-4.36
1831.7	76.0 (54.1)	74.4	60.66	65.54	69.33	64.57	66.76	62.36	57.12	50.44	39.96	22.81	-4.18
1732.1	76.5 (54.1)	74.4	60.68	65.48	69.04	64.70	66.68	62.42	57.43	50.95	40.87	24.49	-1.21
1655.1	76.5 (53.9)	74.1	61.08	65.23	68.93	68.32	66.45	62.40	57.93	51.61	41.84	24.64	1.37
1594.7	76.0 (54.0)	74.0	60.32	64.94	68.30	68.40	66.70	62.57	57.88	51.69	42.15	24.82	2.91
1552.9	76.4 (53.7)	73.8	60.50	64.62	67.69	68.10	66.39	62.50	57.84	51.72	42.37	27.37	4.03
1523.1	76.0 (53.3)	73.4	60.25	64.29	67.60	67.73	65.96	62.46	57.81	51.74	42.42	27.75	4.80
1505.7	75.7 (52.9)	72.9	60.28	63.96	66.95	67.03	65.56	62.01	57.68	51.64	42.50	27.97	5.10
1500.0	75.3 (52.5)	72.6	59.17	63.59	66.83	66.77	65.21	61.58	57.47	51.45	42.32	27.73	5.88
1505.7	74.8 (51.9)	72.0	58.98	62.96	66.19	66.15	64.72	60.89	56.89	50.87	41.71	27.88	4.35
1523.1	74.7 (51.4)	71.5	58.62	62.84	65.95	65.99	64.88	60.87	56.83	50.87	41.14	26.54	3.82
1552.9	73.2 (50.7)	70.8	57.45	61.74	64.86	64.84	63.51	59.98	56.28	50.16	40.81	24.81	2.47
1594.7	72.9 (50.1)	70.2	57.23	61.88	64.23	64.38	62.98	59.24	55.64	49.48	39.84	24.62	2.71
1655.1	72.0 (49.1)	69.2	55.57	60.23	62.95	63.49	62.02	58.78	55.14	48.81	38.85	23.24	-1.48

WON NUMBER	=	112.00	(805.00)
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	=	0.000	
PRIMARY TEMPERATURE (R)	=	525.000	
SECONDARY TEMPERATURE (R)	=	525.000	
PRIMARY PRESSURE RATIO	=	1.000	
AREA RATIO	=	1.000	
VELOCITY RATIO	=	1.000	
PRIMARY VELOCITY (FT/SEC)	=	893.542	
MASS FLOW RATIO	=	5.497	
PRIMARY MASS FLOW (LB/SEC)	=	1.220	
THRUST (LBS)	=	39.664	
ENVIRONMENTAL TEMPERATURE (R)	=	522.000	
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.700	
ENVIRONMENTAL HUMIDITY (PFM CENT)	=	45.000	
CALIBRATION FACTOR (MV TO DY/50 CM)	=	.032	
INSTRUMENTATION NOISE FLOOR (DB)	=	59.573	

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	2.14003E+00	133.3	10000	157.3
			20000	160.3
			40000	163.3
			80000	166.4
500	5.37137E-02	117.3		
1000	2.69870E-01	124.3		
2000	6.10826E-01	127.9		
4000	4.74634E-01	126.8		
8000	3.70044E-01	125.7		
16000	2.18059E-01	123.4		
31500	1.42879E-01	121.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.9	101.6	101.1	94.3	89.2	86.2	86.8	105.5
20.0	95.9	102.2	102.1	95.0	91.7	87.9	87.9	108.4
25.0	94.8	102.2	103.1	97.7	94.1	90.3	89.5	107.0
30.0	93.7	101.1	104.0	99.4	95.6	91.7	90.3	107.4
35.0	92.2	100.0	104.2	100.5	97.3	93.6	91.7	107.7
40.0	90.0	97.9	103.0	102.4	98.4	94.9	92.7	107.8
45.0	87.7	95.6	100.8	100.0	98.9	95.8	93.1	106.0
50.0	86.5	94.1	99.4	99.1	98.2	95.9	93.5	105.1
55.0	85.5	92.6	98.3	98.2	97.9	95.6	93.2	104.4
60.0	84.2	91.5	97.5	97.8	97.6	95.2	93.1	103.9
65.0	84.7	91.1	96.6	97.5	97.0	95.1	93.1	103.4
70.0	84.6	90.8	95.8	96.9	96.7	94.7	92.0	103.0
75.0	84.3	90.1	95.2	96.6	96.2	94.3	92.6	102.5
80.0	83.5	89.9	94.7	96.1	95.9	93.3	91.7	101.9
85.0	83.3	89.5	94.2	96.0	95.6	94.0	92.2	101.9
90.0	82.0	89.4	93.9	95.7	95.1	93.1	92.0	101.5
95.0	82.8	88.8	93.4	95.2	95.0	93.3	91.8	101.2
100.0	81.9	88.7	93.0	94.8	94.3	92.6	91.2	100.7
105.0	81.4	87.9	92.6	94.8	94.1	92.3	90.9	100.5
110.0	80.6	87.2	92.1	94.6	93.6	91.9	90.6	100.1
115.0	80.3	85.8	91.5	93.9	93.4	91.5	90.2	99.5

MODEL THRUST = 39.664 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	22.3	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	2005.6	5566.6	11133.2	22266.5	
				44.5	89.1	178.1	356.3	712.5	1402.0	2805.6	5566.6	11133.2	22266.5
5795.4	73.7 (73.3)	77.6	68.22	73.92	73.26	66.01	59.71	53.62	47.01	28.03	-6.17	-45.76	-100.62
4385.7	78.6 (78.0)	80.9	70.66	76.95	76.73	70.13	65.11	58.95	53.66	38.37	11.74	-34.86	-100.58
3549.3	82.6 (81.7)	83.4	71.33	78.40	79.54	73.95	69.50	63.86	58.66	45.88	23.77	-13.89	-73.15
3000.0	85.6 (84.6)	85.2	71.75	79.14	81.94	77.10	72.75	67.22	62.09	50.81	31.66	-6.83	-51.10
2615.2	88.0 (86.8)	86.6	71.42	79.26	83.35	74.50	75.77	70.60	65.44	55.24	38.16	9.62	-34.83
2335.6	89.6 (88.2)	86.8	70.19	78.07	83.15	80.40	77.87	73.18	68.04	58.61	43.05	17.26	-22.73
2121.3	90.6 (89.0)	86.6	68.74	76.64	81.80	80.87	79.27	75.08	69.69	60.63	46.41	22.70	-13.92
1956.1	91.0 (89.1)	86.3	68.22	75.86	81.06	80.61	79.36	76.01	71.17	62.77	49.23	27.11	-6.93
1831.7	91.2 (89.2)	86.1	67.83	74.87	80.58	80.36	79.03	76.31	71.67	63.62	50.76	29.65	-2.16
1732.1	91.5 (89.4)	86.1	66.98	74.34	80.25	80.46	79.88	76.56	72.25	64.48	52.16	32.24	1.79
1655.1	91.6 (89.4)	86.1	67.87	74.34	79.76	80.52	79.75	76.94	72.86	65.30	53.39	34.23	5.00
1596.3	91.6 (89.3)	85.9	68.10	74.28	79.29	80.27	79.71	76.92	72.99	65.59	53.99	35.41	7.10
1552.9	91.5 (89.2)	85.8	68.01	73.92	78.92	80.24	79.52	76.76	73.16	65.88	54.51	36.35	8.74
1523.1	90.9 (88.6)	85.3	67.39	73.45	78.60	79.92	79.09	75.92	72.42	65.22	54.02	36.15	9.00
1504.7	91.7 (89.8)	85.4	67.30	73.47	78.17	79.44	79.14	76.72	73.04	65.93	54.62	37.12	10.25
1500.0	90.9 (88.4)	85.0	67.66	73.70	77.91	79.49	79.70	76.11	72.89	65.76	54.68	37.04	10.26
1505.7	90.8 (88.2)	84.7	68.41	72.81	77.37	79.03	78.57	76.03	72.47	65.52	54.42	36.71	9.85
1523.1	89.9 (87.4)	84.8	65.80	72.66	76.87	78.57	77.73	75.09	71.94	64.79	53.59	35.71	8.87
1552.9	89.4 (87.0)	83.7	65.71	71.65	76.33	78.43	77.35	74.79	71.43	64.15	52.79	34.43	7.81
1594.3	88.7 (86.3)	83.0	64.17	70.64	75.58	77.99	76.63	74.08	70.83	63.43	51.84	33.25	6.95
1659.1	87.9 (85.5)	82.1	63.46	68.99	74.87	76.92	75.12	73.32	69.48	62.42	50.51	31.35	2.11

RUN NUMBER	114.00	(70K.00)
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	0.0000	
PRIMARY TEMPERATURE (R)	527.000	
SECONDARY TEMPERATURE (R)	523.000	
PRIMARY PRESSURE RATIO	1.000	
AREA RATIO	9.788	
VELOCITY RATIO	.345	
PRIMARY VELOCITY (FT/SEC)	895.242	
MASS FLOW RATIO	3.302	
PRIMARY MASS FLOW (LB/SEC)	.222	
THRUST (LBS)	13.183	
ENVIRONMENTAL TEMPERATURE (R)	522.000	
ENVIRONMENTAL PRESSURE (IN.HG)	29.700	
ENVIRONMENTAL HUMIDITY (PER CENT)	45.000	
CALIBRATION FACTOR (INV TO DY/50 CM)	.004	
INSTRUMENTATION NOISE FLOOR (DB)	42.500	

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	2.86875E-02	110.6	10000	143.4
			20000	146.6
			40000	149.6
			80000	152.4
500	1.44167E-03	101.6		
1000	3.74986E-03	105.7		
2000	1.05557E-02	110.2		
4000	6.76719E-03	108.3		
8000	3.51311E-03	102.5		
16000	1.60060E-03	102.0		
31500	1.05938E-03	100.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	78.8	84.0	86.8	80.2	69.6	63.2	65.8	89.6
20.0	78.9	83.5	87.0	81.6	72.5	64.2	66.3	89.9
25.0	77.7	82.9	86.9	83.0	75.0	66.4	66.8	89.9
30.0	76.3	81.4	86.4	83.7	77.8	69.4	67.7	89.7
35.0	74.7	80.2	85.1	83.3	79.2	72.6	69.3	88.9
40.0	73.7	78.2	84.0	82.5	80.1	74.6	71.9	88.2
45.0	72.8	76.8	82.7	81.8	79.5	75.7	72.5	87.4
50.0	72.3	76.5	81.6	80.7	78.9	75.7	73.0	86.6
55.0	72.5	75.3	80.4	79.8	78.1	75.1	72.4	85.7
60.0	71.5	74.6	79.5	78.7	77.1	74.4	72.2	84.8
65.0	71.2	74.3	79.1	78.3	76.6	73.8	71.9	84.4
70.0	70.4	73.8	78.8	77.4	75.8	73.5	71.9	83.6
75.0	69.9	72.9	77.3	76.8	75.0	72.7	71.2	82.9
80.0	70.1	72.4	76.5	76.2	74.5	72.2	70.9	82.3
85.0	69.5	71.7	75.9	75.7	73.9	71.6	70.3	81.7
90.0	68.6	71.9	75.5	74.8	73.2	71.0	70.1	81.2
95.0	68.6	71.6	75.5	74.5	72.8	70.6	69.8	81.0
100.0	67.9	70.9	75.4	74.2	72.5	70.2	69.5	80.6
105.0	67.6	70.6	74.9	73.7	71.7	69.6	69.1	80.1
110.0	66.2	69.1	73.8	72.9	71.2	69.2	68.7	79.2
115.0	65.5	68.9	73.1	72.2	70.7	68.9	68.6	78.8

MODEL THRUST = 13.183 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
			12.8	25.7	51.3	102.7	205.4	410.8	808.7	1617.5	3209.3	6410.6	12837.2	
3795.5	56.71	55.61	66.7	55.89	61.87	63.81	57.12	45.94	38.15	37.09	25.44	4.28	-34.58	-100.63
4385.7	61.41	60.11	69.3	54.42	62.99	66.48	60.98	51.42	42.17	41.42	31.87	15.07	-15.81	-65.72
3540.3	65.21	63.71	71.2	59.06	64.79	68.23	64.22	55.92	44.80	44.56	30.26	22.09	-2.82	-66.33
3000.0	68.21	64.51	72.4	58.12	64.72	69.23	66.37	60.25	51.05	47.56	40.08	27.64	6.12	-29.52
2615.2	70.71	66.71	72.8	58.72	64.71	69.12	67.17	62.89	55.62	50.72	43.82	32.59	13.44	-14.01
2333.6	72.71	70.41	73.1	58.72	63.25	68.95	67.44	64.72	54.72	53.71	47.22	38.88	19.47	-8.91
2171.3	73.71	71.01	73.1	58.47	62.66	68.54	67.93	65.03	60.73	54.18	50.01	48.34	24.24	-1.84
1950.1	74.31	71.31	73.0	58.86	63.05	68.12	67.19	65.21	61.44	47.57	51.64	42.48	27.39	3.89
1831.2	74.51	71.31	72.6	59.63	62.38	67.35	66.41	64.23	61.51	44.05	52.32	43.55	29.25	6.73
1732.1	74.31	71.01	72.2	59.14	62.16	67.05	66.22	64.46	61.38	54.07	52.43	43.48	30.28	4.44
1655.1	74.31	70.91	72.2	59.17	62.29	67.07	66.21	64.37	61.18	54.24	52.77	44.50	31.34	10.34
1596.3	74.41	70.71	71.8	58.78	62.11	66.26	65.69	63.94	61.21	54.62	53.23	45.21	32.35	11.99
1552.9	73.91	70.21	71.3	58.46	61.47	65.84	65.12	63.31	60.68	54.21	52.89	45.88	32.42	12.52
1523.1	73.61	69.91	70.9	58.94	61.11	65.21	64.47	62.99	60.34	54.14	52.86	45.87	32.66	13.89
1504.7	73.11	69.31	70.6	58.34	60.54	64.57	63.64	62.52	60.82	47.59	52.33	44.59	32.38	12.92
1500.8	72.61	68.71	70.0	57.82	60.74	63.76	63.58	61.83	59.25	47.42	42.18	44.44	32.20	12.88
1505.7	72.21	68.31	69.7	57.66	60.43	63.25	61.77	61.42	58.82	47.07	51.82	44.08	31.78	12.40
1523.1	71.41	67.91	69.2	56.52	59.49	64.07	62.43	61.03	58.38	54.63	51.46	43.67	31.26	11.60
1502.9	71.81	67.11	68.6	56.12	59.14	63.42	62.14	60.61	57.49	54.09	50.77	42.89	30.38	10.40
1506.3	70.11	66.11	67.4	54.48	57.65	61.88	61.04	59.38	55.87	54.54	50.19	42.17	29.31	8.94
1505.1	69.21	65.61	66.6	53.67	56.91	61.12	60.11	58.58	55.25	54.77	49.49	41.29	28.87	7.88

NOISE NUMBER	115.00 (ADJ. 00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	531.000
SECONDARY TEMPERATURE (R)	532.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	9.700
VELOCITY RATIO	0.446
PRIMARY VELOCITY (FT/SEC)	898.633
MASS FLOW RATIO	7.153
PRIMARY MASS FLOW (LB/SEC)	0.217
THRUST (LBS)	36.167
ENVIRONMENTAL TEMPERATURE (R)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	65.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.010
INSTRUMENTATION NOISE FLOOR (DB)	49.520

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	1.37285E-01	121.4	10000	145.8
			20000	140.8
			40000	151.9
			80000	154.8
500	1.49733E-02	111.8		
1000	2.65344E-02	114.2		
2000	3.82352E-02	115.8		
4000	3.01543E-02	114.8		
8000	1.67115E-02	112.2		
16000	7.39477E-03	108.7		
31500	3.27282E-03	105.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	8000	16000	31500	ALL
15.0	90.0	90.7	87.6	82.0	75.1	70.8	68.0	94.7
20.0	89.6	92.9	89.0	83.0	77.0	72.1	69.6	95.1
25.0	88.1	90.9	90.1	85.4	79.6	74.7	71.2	95.3
30.0	87.5	89.5	90.2	86.7	81.8	76.6	73.1	95.8
35.0	84.3	84.6	90.0	87.5	83.4	78.7	74.9	94.8
40.0	84.8	87.1	89.3	87.3	83.9	79.4	76.1	94.1
45.0	82.9	86.9	89.5	87.9	84.8	80.8	76.8	94.3
50.0	82.6	85.3	88.2	87.8	84.8	80.9	76.8	93.6
55.0	81.9	84.4	87.5	86.9	84.6	81.2	77.1	92.9
60.0	81.3	84.3	86.7	86.1	84.2	80.8	77.1	92.3
65.0	80.4	83.7	86.5	86.2	84.3	80.6	77.0	92.2
70.0	79.8	82.5	85.4	85.5	83.6	80.3	76.6	91.3
75.0	79.1	82.1	84.7	85.5	83.0	79.7	76.3	90.9
80.0	78.9	81.7	84.2	85.2	82.7	79.5	76.1	90.4
85.0	78.2	81.0	83.6	84.2	82.4	79.1	75.5	89.9
90.0	77.4	80.5	83.0	83.3	81.9	78.8	75.5	89.3
95.0	77.1	80.0	82.7	82.9	81.2	78.0	74.9	88.8
100.0	76.4	79.6	82.3	82.7	81.0	77.9	74.9	88.5
105.0	75.7	78.8	82.1	82.3	80.2	77.4	74.3	88.0
110.0	74.7	78.0	81.1	81.6	80.1	77.3	74.2	87.4
115.0	74.3	77.5	80.6	81.2	79.9	76.7	73.6	87.0

MODEL THRUST = 36.167 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE		BAND	SOUND	PRESSURE		LFVELS				
			21.3	42.5	85.0	170.1	340.2	680.4	1339.5	2679.0	5315.6	10631.1	21262.2
5795.6	58.8 (58.4)	67.3	62.70	63.38	60.21	54.15	46.16	38.95	29.37	11.16	-21.74	-79.32	-171.57
4385.7	63.31 (62.7)	70.1	64.72	66.06	64.06	57.69	50.88	43.80	36.15	21.64	-3.99	-44.29	-110.43
3549.3	67.71 (67.0)	72.2	65.10	67.90	66.98	62.02	55.61	48.51	41.13	28.86	7.55	-28.88	-88.53
3008.0	70.41 (69.9)	73.3	65.42	67.93	66.88	64.49	59.39	52.72	45.70	34.42	16.35	-14.91	-44.11
2615.2	73.31 (72.2)	74.3	65.91	68.23	67.53	66.92	62.28	54.30	49.39	39.52	23.03	-4.60	-47.87
2333.4	74.41 (73.4)	74.5	65.40	67.72	67.00	67.48	63.89	59.33	52.16	43.03	27.99	3.01	-35.92
2121.3	76.51 (75.0)	75.5	64.39	68.32	70.49	69.20	65.61	60.53	54.06	45.49	31.55	8.57	-27.09
1954.1	77.21 (75.6)	75.5	64.74	67.66	70.36	69.40	65.64	61.52	55.08	48.94	33.44	12.39	-20.76
1821.2	77.61 (76.1)	75.4	64.58	67.18	70.18	69.49	64.77	62.49	55.22	45.42	35.47	15.72	-15.48
1732.1	74.01 (76.2)	75.3	64.49	67.53	69.91	69.16	64.89	62.60	56.46	44.35	37.42	18.16	-11.57
1659.1	78.41 (76.6)	75.5	63.47	67.32	70.07	69.70	67.41	62.80	57.34	50.00	38.48	19.87	-8.61
1596.3	78.21 (76.2)	75.0	63.50	66.44	69.96	69.30	67.11	63.01	57.35	50.16	38.49	20.80	-6.44
1552.9	78.01 (76.0)	74.4	63.27	66.76	69.78	69.52	66.77	62.67	57.45	50.38	39.37	21.74	-5.17
1523.1	77.91 (75.8)	74.6	63.26	66.06	69.48	69.40	66.49	62.61	57.44	50.66	39.60	22.25	-4.74
1505.7	77.81 (75.3)	74.1	62.42	65.45	67.79	67.54	65.41	62.39	57.00	50.05	39.23	22.10	-4.69
1508.0	76.01 (74.7)	73.5	61.47	64.47	67.42	67.62	65.93	62.88	57.04	50.11	39.37	22.24	-3.46
1495.7	74.21 (74.1)	72.9	61.54	64.48	67.05	67.14	64.21	61.23	56.73	49.61	38.64	21.46	-4.72
1523.1	75.01 (73.7)	72.4	60.74	63.84	66.44	66.40	64.91	61.04	56.73	48.73	38.37	21.03	-5.43
1542.9	75.11 (72.9)	71.9	59.49	62.95	66.27	66.27	63.97	60.36	55.46	44.38	37.37	19.75	-7.17
1494.1	74.01 (72.3)	71.0	59.47	61.88	65.80	65.14	63.61	59.92	54.88	47.41	36.49	19.53	-9.05
1525.1	73.61 (71.9)	70.2	57.94	61.89	64.17	64.59	62.60	59.04	53.98	48.53	35.02	16.56	-11.92

RUN NUMBER	110.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (°I)	507.000
SECONDARY TEMPERATURE (°I)	520.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	9.249
VELOCITY RATIO	1.013
PRIMARY VELOCITY (FT/SEC)	870.090
MASS FLOW RATIO	11.031
PRIMARY MASS FLOW (LB/SEC)	2.217
THRUST (LBS)	71.914
ENVIRONMENTAL TEMPERATURE (°I)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.200
ENVIRONMENTAL HUMIDITY (PER CENT)	39.000
CALIBRATION FACTOR (MV TO OY/50 CM)	.035
INSTRUMENTATION NOISE FLOOR (DB)	88.572

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	1.76065E+00	132.5	10000	153.9
			20000	158.9
			40000	159.9
			80000	162.9
500	1.58050E-01	122.0		
1000	3.27847E-01	125.2		
2000	4.14278E-01	126.2		
4000	3.50875E-01	125.5		
8000	2.74503E-01	124.4		
16000	1.53745E-01	121.9		
31500	8.13512E-02	119.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	101.8	102.3	97.8	93.6	89.6	85.4	82.0	106.2
20.0	101.9	103.0	99.5	94.1	90.1	86.5	83.5	106.6
25.0	100.0	102.7	100.8	96.6	93.2	88.8	85.6	106.8
30.0	98.5	102.0	101.3	95.4	91.1	86.7	83.2	106.8
35.0	96.4	100.3	101.3	94.2	90.4	86.4	82.8	106.4
40.0	94.6	98.7	100.6	94.3	90.9	86.1	82.7	105.8
45.0	93.0	96.8	99.7	94.0	90.5	86.3	82.9	105.3
50.0	91.3	95.8	98.7	98.5	97.5	94.5	91.2	104.7
55.0	90.2	94.5	97.6	97.8	97.1	94.4	91.3	103.9
60.0	89.2	93.7	96.5	96.7	96.2	94.1	91.4	103.1
65.0	89.2	93.2	96.0	96.3	95.9	93.7	91.2	102.7
70.0	87.8	92.2	95.3	95.7	95.4	93.3	90.9	102.1
75.0	88.2	91.9	94.9	94.9	95.1	93.0	90.3	101.8
80.0	87.1	90.9	93.9	94.8	94.3	92.5	90.1	101.0
85.0	87.2	90.6	93.5	94.2	93.7	91.7	89.4	100.5
90.0	86.0	90.2	92.1	93.9	93.6	91.3	89.5	100.1
95.0	85.5	89.4	92.5	93.3	93.1	91.0	89.0	99.6
100.0	85.1	88.9	92.2	92.9	92.6	90.5	88.6	99.3
105.0	84.4	88.3	91.7	92.2	92.5	90.8	88.5	98.9
110.0	84.0	88.0	91.6	92.2	92.0	90.3	88.0	98.6
115.0	82.8	87.5	90.8	91.7	91.9	90.1	87.6	98.2

MODEL THRUST = 71.914 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	30.0	60.0	110.9	239.9	479.7	959.4	1848.9	3727.7	7495.5	14991.0	29982.0
5795.6	70.61	70.51	75.7	71.47	71.92	67.20	62.34	56.57	47.77	34.16	9.47	-34.16	-107.73	-220.19				
4385.7	75.11	74.81	78.5	73.10	75.09	71.45	65.49	60.17	53.08	42.36	22.95	-10.80	-67.20	-153.04				
3244.1	79.11	78.71	82.0	75.97	77.45	74.63	70.04	65.39	58.32	44.99	32.59	-4.71	-41.51	-111.55				
3000.0	82.51	82.01	82.0	73.97	77.40	76.62	73.32	69.12	62.37	52.52	37.52	15.45	-24.07	-83.74				
2615.2	84.71	84.01	82.6	73.07	76.93	77.74	74.34	71.82	65.68	57.51	44.72	23.34	-11.46	-63.55				
2333.6	86.01	85.11	83.0	72.25	76.35	78.13	74.52	73.43	67.83	60.33	46.60	29.24	-2.18	-49.25				
2121.3	87.01	86.01	83.2	71.45	75.27	74.03	71.14	74.93	70.09	62.91	51.97	34.10	5.27	-37.50				
1958.1	87.71	86.61	83.2	70.47	74.92	77.41	77.32	75.75	71.16	64.46	54.13	37.40	10.56	-29.42				
1831.2	88.01	86.71	83.0	69.98	74.14	77.25	77.24	75.94	71.56	65.58	52.85	32.21	14.51	-23.02				
1732.5	87.91	86.51	82.4	69.46	73.86	76.65	76.69	75.61	72.09	64.42	50.94	41.79	17.70	-14.01				
1655.1	88.21	86.71	82.7	68.86	73.81	76.57	76.66	75.77	72.28	64.04	57.64	43.00	19.89	-14.37				
1496.3	88.01	86.61	82.4	68.72	73.10	76.20	76.41	75.57	72.25	64.97	57.99	43.80	21.38	-11.74				
1552.9	87.91	86.31	82.3	68.39	73.05	75.96	76.31	74.49	72.26	64.80	57.89	44.15	22.19	-10.14				
1523.1	87.51	85.81	81.7	68.48	72.21	75.15	75.94	74.92	71.92	64.82	54.12	44.44	22.89	-4.87				
1504.7	87.01	85.41	81.3	67.65	72.07	74.87	75.42	74.15	71.23	64.30	57.04	44.15	22.77	-5.67				
1508.0	86.71	85.11	81.0	67.45	71.41	74.46	75.14	74.61	70.92	64.52	50.91	43.37	22.12	-9.21				
1505.7	86.21	84.61	80.4	66.94	70.74	73.84	74.54	73.87	70.48	64.47	50.83	43.70	21.94	-9.59				
1523.1	85.71	84.01	79.9	66.42	70.22	73.63	73.94	73.23	70.21	64.32	50.62	42.90	21.39	-10.34				
1552.9	85.31	83.61	79.3	65.34	69.45	72.79	73.15	72.91	70.00	64.90	50.15	42.24	20.35	-11.90				
1596.3	84.51	82.91	78.4	64.91	69.46	72.46	72.86	72.18	69.26	64.09	55.11	40.92	19.49	-14.60				
1655.1	83.81	82.21	78.0	63.45	68.16	71.33	72.10	71.09	68.07	63.17	52.98	39.37	18.22	-14.04				

RUN NUMBER	117 (726)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	510.000
SECONDARY TEMPERATURE (R)	520.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	9.788
VELOCITY RATIO	1.160
PRIMARY VELOCITY (FT/SEC)	880.000
MASS FLOW RATIO	10.275
PRIMARY MASS FLOW (LB/SEC)	200
THRUST (LBS)	96.035
ENVIRONMENTAL TEMPERATURE (R)	518.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	37.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.071
INSTRUMENTATION NOISE FLOOR (DB)	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.27221E+00	138.0	THRUST	POWER LEVEL (DB)
500	5.28590E-01	127.2	10000	158.1
1000	1.23210E+00	130.9	20000	161.2
2000	1.48227E+00	131.7	40000	164.2
4000	1.21993E+00	130.9	80000	167.2
8000	9.90408E-01	130.0		
16000	5.41674E-01	127.3		
31500	2.77181E-01	124.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	8000	16000	31500	OVER ALL
15.0	106.5	108.3	103.9	99.1	95.1	90.9	86.9	111.7
20.0	106.2	109.0	105.8	101.1	98.6	91.6	88.2	112.5
25.0	105.7	108.9	107.8	102.4	98.4	93.5	89.5	113.0
30.0	105.4	108.5	107.6	103.7	100.5	95.9	92.0	112.9
35.0	103.5	106.8	107.3	105.2	102.1	97.7	93.3	112.6
40.0	99.6	104.7	106.5	104.9	102.5	98.6	95.1	111.5
45.0	97.4	102.7	105.1	104.6	103.2	99.6	95.8	110.8
50.0	95.5	100.6	104.0	104.0	103.2	100.2	96.8	110.9
55.0	94.5	99.1	102.7	103.2	102.5	99.8	96.8	109.2
60.0	93.4	98.1	101.3	102.0	102.0	99.5	96.5	108.3
65.0	92.9	97.2	100.6	101.4	101.3	99.1	96.2	107.7
70.0	91.9	96.1	99.9	100.9	100.9	98.7	95.2	107.1
75.0	91.7	96.0	99.3	100.4	100.5	98.5	95.7	106.7
80.0	90.5	95.0	98.6	99.9	99.9	98.1	95.3	106.1
85.0	90.6	94.9	97.8	99.2	99.3	97.5	94.9	105.5
90.0	89.9	94.2	97.5	98.5	98.7	97.0	94.6	105.0
95.0	89.0	93.3	97.0	98.2	98.5	96.6	94.4	104.6
100.0	88.6	93.0	96.4	97.5	97.9	95.9	93.5	104.0
105.0	88.3	93.0	96.1	97.2	97.6	95.6	93.5	103.7
110.0	87.4	92.4	95.9	96.9	97.4	95.5	93.0	103.4
115.0	87.1	90.9	95.2	96.5	97.1	95.5	92.8	103.0

MODEL THRUST = 96.035 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	34.6	OCTAVE BAND 69.3	139.6	SOUND PRESSURE LEVELS 217.2	554.4	1109.7	LEVELS 2182.5	4365.0	8730.0	17460.0	34920.0	69840.0	139680.0	279360.0
5795.6	76.21	76.21	79.9	74.96	76.44	72.01	66.40	60.14	50.48	34.46	6.45	-42.45	-123.47	-244.79		
4385.7	81.21	81.11	83.2	77.11	79.42	76.46	71.12	64.90	55.78	43.27	21.34	-16.39	-78.43	-170.97		
3549.3	85.11	84.91	85.5	78.39	81.56	80.28	74.20	68.09	60.75	49.43	31.11	-1.01	-50.25	-125.24		
3000.0	87.51	87.21	86.8	78.56	82.63	81.61	77.27	72.93	64.46	55.61	34.47	12.71	-30.68	-84.53		
2615.7	89.81	89.41	87.6	78.87	82.13	82.55	80.03	75.95	69.07	59.31	45.03	21.32	-16.89	-73.25		
2333.6	90.81	90.21	87.4	78.00	81.02	82.49	80.41	77.50	71.61	63.03	49.96	25.44	-5.94	-46.54		
2121.3	91.61	90.91	87.3	74.61	79.40	82.16	81.42	74.12	73.53	65.32	51.17	33.37	1.81	-44.49		
1954.1	92.11	91.71	87.2	73.41	78.44	81.74	81.52	74.94	75.05	67.64	54.19	37.69	4.32	-34.65		
1831.7	92.21	91.21	86.8	73.00	77.52	81.03	81.34	74.94	75.43	68.08	57.78	40.29	12.63	-27.25		
1732.1	92.21	91.11	86.4	72.34	77.21	80.14	80.64	74.94	74.44	67.37	54.90	42.14	15.86	-22.50		
1654.1	92.11	90.91	86.2	72.23	76.50	79.49	80.45	74.73	75.88	64.57	54.43	43.33	18.04	-18.75		
1596.3	92.11	90.81	85.9	71.58	76.01	79.50	80.24	74.63	75.89	70.10	60.21	44.57	20.08	-15.51		
1552.9	91.91	90.61	85.7	71.46	75.49	79.09	80.00	74.47	76.04	70.00	60.39	45.00	21.09	-13.61		
1523.1	91.61	90.31	85.3	70.55	75.03	78.60	74.67	74.12	74.83	69.93	60.35	45.79	21.79	-12.31		
1464.7	91.21	89.91	84.9	71.01	75.77	77.44	79.04	74.58	74.34	69.63	60.14	45.21	21.49	-11.20		
1400.0	90.71	89.31	84.3	70.11	74.37	77.58	78.40	74.05	74.97	69.40	59.93	45.05	21.06	-11.77		
1355.7	90.31	88.91	83.9	69.14	73.46	77.10	78.07	74.37	74.49	69.15	59.66	44.73	21.46	-14.20		
1323.1	89.41	88.11	83.1	68.70	73.07	76.35	77.31	73.06	73.69	64.05	54.48	43.42	19.92	-16.14		
1322.9	89.01	87.61	82.7	68.14	72.90	74.40	76.40	72.57	73.12	67.78	54.08	42.73	18.87	-15.53		
1266.3	88.31	87.01	82.1	68.46	72.04	74.48	76.24	72.09	72.74	64.93	57.04	41.40	16.91	-14.48		
1254.1	87.51	86.91	81.3	62.49	70.21	73.19	75.23	72.34	72.34	65.17	56.83	49.92	16.44	-22.13		

WIND NUMBER	= 110.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 535.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1204.479
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .335
THRUST (LBS)	= 12.531
ENVIRONMENTAL TEMPERATURE (R)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 48.000
CALIBRATION FACTOR (IN. TO DY/50 CM)	= .020
INSTRUMENTATION NOISE FLOOR (DB)	= 59.586

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	9.06735E-01	129.6	THRUST POWER LEVEL (DB)
500	2.94379E-03	104.7	10000 158.6
1000	2.45444E-02	113.9	20000 161.6
2000	1.53024E-01	121.9	40000 164.6
4000	3.21005E-01	125.1	80000 167.6
8000	2.23000E-01	123.7	
16000	1.15005E-01	120.6	
31500	5.38905E-02	117.3	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE 10(°)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	84.1	93.7	101.1	103.2	97.8	91.7	85.6	106.5
20.0	83.2	92.6	101.5	103.0	100.2	91.3	85.0	107.2
25.0	82.4	92.3	100.9	103.0	100.3	92.9	87.2	107.1
30.0	80.8	91.1	99.7	102.8	99.7	93.4	85.1	106.2
35.0	79.0	89.4	97.4	101.2	99.2	94.1	89.4	104.9
40.0	77.0	86.6	94.8	98.6	98.0	94.4	90.0	103.2
45.0	75.5	83.9	91.8	96.2	97.3	94.0	90.2	101.9
50.0	73.9	81.6	89.4	94.8	95.8	94.2	90.4	100.4
55.0	72.0	80.4	87.2	93.0	94.1	92.9	89.8	98.9
60.0	70.3	78.9	85.7	90.6	92.7	91.3	88.3	97.4
65.0	71.0	78.6	85.3	89.7	91.4	90.6	88.0	96.7
70.0	71.5	79.3	84.7	89.8	91.0	89.4	87.2	95.9
75.0	71.0	78.2	84.5	88.6	90.4	89.3	87.2	95.5
80.0	71.0	79.0	84.2	88.2	89.4	88.4	86.5	94.9
85.0	70.2	77.3	83.6	87.5	89.1	88.4	86.0	94.5
90.0	70.0	77.1	83.6	87.1	88.8	88.5	87.1	94.4
95.0	69.4	77.1	83.0	86.6	88.3	88.6	86.7	94.1
100.0	69.0	76.0	82.8	86.8	87.8	89.5	86.2	93.7
105.0	68.1	76.2	81.8	85.4	87.4	88.3	85.4	93.3
110.0	67.4	75.5	81.4	85.1	86.9	88.3	85.7	93.1
115.0	67.0	74.9	81.4	85.2	86.0	88.4	85.0	93.1

MODEL THRUST = 12.531 FULL SCALE THRUST = 20000.000

L.	POS.	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
			12.5	22.0	50.1	100.1	200.2	400.5	700.9	1577.0	3120.9	6257.7	12515.5	
5799.6	02.41	81.71	83.5	61.67	71.03	78.33	80.35	74.41	66.88	57.49	46.09	25.32	-12.66	-77.52
4305.7	06.11	85.11	84.7	62.92	73.35	81.21	83.36	79.48	69.50	61.24	51.92	35.48	6.01	-63.01
3540.9	08.01	87.43	88.5	63.96	73.47	82.42	85.27	81.62	73.19	62.39	52.74	32.36	10.34	-21.24
3080.8	09.01	88.51	89.0	63.80	74.11	82.70	85.71	82.41	75.30	64.23	54.40	40.00	27.40	-7.44
2615.2	11.11	89.11	89.0	63.23	72.40	81.45	85.29	81.13	73.39	61.04	50.29	33.27	34.40	3.57
2333.4	11.01	89.01	88.2	62.21	71.77	79.07	83.70	82.47	74.01	63.01	52.63	36.48	39.30	11.44
2121.3	11.71	89.01	87.6	61.53	69.44	77.45	82.22	83.10	74.04	64.24	54.17	39.00	42.40	17.22
1954.1	11.01	88.71	86.8	60.64	68.32	75.10	80.71	82.27	80.21	74.27	64.30	50.30	45.50	21.40
1831.2	11.31	88.01	85.0	60.17	67.76	74.55	79.73	81.26	79.52	75.34	64.44	51.04	47.02	24.40
1732.1	10.31	86.91	84.0	60.07	66.74	73.52	78.28	80.29	74.44	74.39	64.88	50.57	47.12	25.63
1655.1	09.21	86.01	84.6	59.45	64.83	73.53	77.82	79.78	74.17	74.62	64.22	51.15	48.16	27.49
1596.3	08.01	86.11	84.2	60.10	65.44	73.19	77.43	79.34	77.59	74.72	64.91	51.01	48.34	28.30
1552.0	08.01	86.11	84.1	60.40	66.92	73.26	77.27	79.02	77.49	74.50	64.25	51.49	49.12	29.54
1523.1	09.31	85.51	83.6	59.90	66.92	73.25	77.13	78.36	74.80	73.95	64.74	51.04	48.00	29.42
1504.7	09.31	85.51	83.4	59.27	66.30	72.41	76.41	77.74	74.84	74.34	64.17	51.50	49.42	30.40
1500.0	08.51	85.41	83.3	59.48	66.20	72.44	76.12	77.69	77.07	74.67	64.50	51.90	49.05	30.40
1505.7	09.21	85.21	82.9	59.44	66.10	72.01	75.50	77.14	77.10	74.70	64.04	51.40	49.35	30.30
1523.1	08.71	84.91	82.4	58.79	65.50	71.34	74.80	76.53	73.65	73.65	64.45	50.70	48.50	29.33
1552.0	08.11	84.71	81.8	58.48	64.94	70.52	74.15	75.93	76.49	72.93	67.50	50.92	47.44	27.87
1594.3	07.71	83.91	81.4	48.14	64.07	69.42	73.14	75.21	74.23	72.44	67.34	50.45	48.01	24.77
1655.1	07.31	83.01	81.0	55.93	62.04	67.40	71.17	74.49	75.94	72.34	64.49	53.02	45.93	24.40

RUN NUMBER	119.00 (707.00)
AIRAL POSITION OF PRIMARY WHT. SECONDARY (INCH)	0.000
PRIMARY TEMPERATURE (R)	530.000
SECONDARY TEMPERATURE (R)	530.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	1.000
VELOCITY RATIO	1.341
PRIMARY VELOCITY (FT/SEC)	1198.928
MASS FLOW RATIO	4.665
PRIMARY MASS FLOW (LB/SEC)	333
THRUST (LBS)	14.600
ENVIRONMENTAL TEMPERATURE (R)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	44.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.028
INSTRUMENTATION NOISE FLOOR (DB)	58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	1.09987E+00	130.4	THRUST POWER LEVEL (DB)
500	1.60314E-02	112.3	10000 158.8
1000	3.71013E-02	115.7	20000 161.8
2000	2.06687E-01	123.2	40000 164.8
4000	3.81838E-01	125.8	80000 167.8
8000	2.73269E-01	124.4	
16000	1.27662E-01	121.1	
31500	5.84637E-02	117.5	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 16000	31500	OVER ALL
15.0	95.4	95.3	101.6	102.9	99.5	90.6	83.2	107.1
20.0	96.5	95.0	102.4	102.0	99.9	91.3	84.8	107.9
25.0	94.8	94.3	102.0	101.9	100.2	92.6	86.2	107.5
30.0	92.2	92.9	101.2	102.6	100.0	93.5	87.1	107.1
35.0	81.4	90.9	99.2	102.3	99.5	94.3	89.2	105.9
40.0	78.9	88.7	96.5	100.2	99.5	95.5	90.4	104.4
45.0	77.0	86.2	93.8	97.6	98.1	95.1	90.6	102.9
50.0	75.3	83.2	90.8	95.1	94.6	94.6	90.7	101.2
55.0	73.9	81.6	88.9	93.5	95.2	93.4	90.0	99.9
60.0	73.4	80.4	87.6	91.9	93.9	92.4	89.2	98.4
65.0	73.1	80.5	87.2	91.0	92.7	91.3	89.6	97.7
70.0	73.8	80.3	86.3	90.3	92.0	90.0	88.8	97.0
75.0	73.1	79.9	85.8	89.6	91.0	89.9	87.4	96.2
80.0	73.1	79.5	85.5	89.1	90.5	89.0	86.3	95.7
85.0	72.5	78.9	85.0	88.7	90.1	89.0	87.2	95.4
90.0	72.3	79.2	84.7	88.2	89.6	88.5	86.5	94.9
95.0	71.9	78.0	84.3	87.8	89.1	88.1	86.0	94.6
100.0	71.3	78.2	83.6	87.4	89.0	88.6	85.9	94.1
105.0	70.4	77.7	83.4	86.9	88.5	88.7	86.3	94.2
110.0	69.4	77.5	83.0	86.5	88.2	88.7	86.8	94.1
115.0	69.4	76.8	82.6	86.1	87.5	88.4	85.8	93.6

MODEL THRUST = 14.600

FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS							
			13.5	27.0	34.1	109.1	216.2	432.4	851.3	1702.7	3378.3	6756.7	13513.4	
5795.4	82.11	81.61	83.4	72.09	71.05	78.19	79.30	75.31	64.90	53.63	41.44	19.22	-21.23	-89.71
4385.7	86.11	85.31	86.7	75.56	74.10	81.41	82.88	78.35	68.64	59.13	49.18	31.63	.29	-52.26
3549.3	88.21	87.11	88.2	78.72	77.17	84.54	84.76	80.65	72.08	63.29	54.67	39.69	13.69	-29.14
3000.0	90.91	89.51	90.2	81.56	79.27	83.50	85.86	81.95	74.69	67.24	59.49	48.54	24.15	-12.74
2615.2	91.11	89.31	89.3	84.96	82.42	82.79	85.73	82.75	76.81	69.40	62.84	51.17	31.27	-1.27
2333.6	92.11	89.91	88.9	83.42	81.26	81.56	86.63	83.70	79.07	72.41	65.72	54.98	38.90	7.53
2121.3	91.91	89.51	88.0	82.38	79.56	79.15	82.66	83.24	79.66	73.66	67.30	57.26	48.55	13.59
1954.1	91.71	89.81	87.0	81.35	78.32	78.45	81.04	82.44	79.85	74.71	68.61	59.11	43.46	18.34
1731.2	91.21	89.11	86.2	80.50	77.23	75.55	80.05	81.60	79.35	74.68	68.78	59.70	44.87	21.18
1732.1	90.71	87.51	85.4	80.53	77.55	74.58	78.47	80.78	78.85	74.45	68.70	59.96	45.77	23.20
1655.1	90.31	86.91	84.9	80.66	78.07	74.77	78.45	80.00	78.12	74.33	68.71	60.72	46.52	24.83
1594.3	90.11	86.81	84.6	81.50	78.14	74.55	78.12	79.65	77.77	74.15	68.62	60.33	47.02	25.98
1552.9	89.71	86.11	84.0	81.21	77.99	73.58	77.66	78.87	77.33	73.85	68.39	60.23	47.20	26.66
1523.1	89.71	85.61	83.7	81.38	77.76	73.74	77.31	78.49	76.44	73.41	68.00	59.94	47.10	26.89
1504.7	89.31	85.61	83.5	80.92	77.20	73.29	76.97	78.27	76.74	73.49	68.00	60.61	47.00	27.87
1508.6	89.91	85.11	83.1	80.65	76.61	73.56	76.53	77.76	76.14	73.24	67.40	59.93	47.23	27.79
1509.7	89.11	84.71	82.7	80.32	76.36	72.84	76.36	77.30	75.90	72.74	67.35	59.36	46.63	28.62
1523.1	89.31	84.61	82.4	80.57	76.67	71.54	75.45	77.04	76.26	72.42	67.18	59.85	46.71	28.00
1552.9	88.11	84.01	82.0	80.71	75.75	71.68	74.90	76.41	76.21	72.72	67.26	59.11	46.00	25.53
1594.3	87.81	84.01	81.4	80.31	75.74	70.53	74.28	75.81	75.88	72.73	67.20	58.91	45.59	24.46
1654.1	86.41	83.21	80.7	80.00	75.30	70.49	73.63	74.40	75.22	71.55	65.52	57.43	43.74	22.05

WUN NUMBER	= 120.00	(710.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000	
PRIMARY TEMPERATURE (IN)	= 530.000	
SECONDARY TEMPERATURE (IN)	= 530.000	
PRIMARY PRESSURE RATIO	= 7.500	
AREA RATIO	= 1.000	
VELOCITY RATIO	= .726	
PRIMARY VELOCITY (FT/SEC)	= 1198.928	
MASS FLOW RATIO	= .744	
PRIMARY MASS FLOW (LB/SEC)	= .333	
THRUST (LBS)	= 19.509	
ENVIRONMENTAL TEMPERATURE (R)	= 522.000	
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700	
ENVIRONMENTAL HUMIDITY (PER CENT)	= 45.000	
CALIBRATION FACTOR (IN V TO DY/50 CM)	= .045	
INSTRUMENTATION NOISE FLOOR (DB)	= 62.585	

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.88499E-02	135.8	THRUST	POWER LEVEL (DB)
500	1.40942E-02	111.5	10000	161.9
1000	1.06762E-01	120.3	20000	165.9
2000	5.76500E-01	127.8	40000	167.9
4000	9.12620E-01	129.6	80000	170.9
8000	7.45963E-01	128.7		
16000	4.23833E-01	126.3		
31500	2.27226E-01	123.6		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	91.0	89.5	105.0	105.0	100.5	93.0	87.1	109.4
22.0	89.7	88.3	106.2	106.3	102.1	95.0	89.2	110.6
25.0	89.5	88.9	106.4	106.7	102.5	95.8	90.5	110.9
30.0	89.1	87.6	105.3	106.8	103.2	97.1	92.3	110.6
35.0	88.5	87.5	103.9	106.2	103.7	98.5	93.8	110.1
40.0	88.2	87.9	101.3	104.5	103.5	99.5	95.1	109.0
45.0	81.2	80.6	98.7	102.2	102.7	100.0	96.2	107.7
50.0	79.3	88.3	96.0	99.9	101.3	99.5	96.0	106.1
55.0	78.0	86.2	93.9	98.1	98.9	98.7	95.8	104.8
60.0	78.0	85.6	92.9	96.7	98.9	97.8	95.3	103.8
65.0	78.6	85.0	92.6	96.3	98.2	98.9	94.7	103.2
70.0	78.4	85.0	92.5	95.7	97.6	98.4	94.4	102.7
75.0	78.0	84.0	91.2	95.1	96.7	95.8	93.9	102.0
80.0	78.1	83.5	91.0	95.1	96.8	95.5	94.0	101.9
85.0	77.4	84.3	90.4	94.4	95.9	94.7	93.1	101.2
90.0	77.4	83.9	90.4	93.8	95.3	94.8	93.1	100.8
95.0	77.1	83.9	90.4	93.5	95.4	94.6	92.9	100.8
100.0	75.9	83.2	90.0	93.3	95.4	94.5	92.7	100.7
105.0	75.3	82.6	89.9	93.5	95.4	95.5	93.4	101.0
110.0	75.0	81.8	89.3	93.3	94.8	94.8	93.4	100.5
115.0	74.2	81.1	88.0	92.6	94.3	94.9	93.1	100.2

MODEL THRUST = 19.509 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	15.0	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	15.0	31.2	62.5	125.0	249.9	499.7	993.4	1987.6	3904.0	7808.1	15616.2
8799.6	83.51	83.01	84.5	66.43	74.86	80.30	80.13	74.92	65.46	64.88	41.04	35.41	-29.62	-104.75					
4385.7	87.81	87.11	88.1	67.56	77.16	83.96	83.83	79.20	70.62	41.32	50.11	30.29	-4.82	-62.78					
3549.3	90.61	89.61	90.3	69.15	78.54	85.99	86.17	81.58	71.63	45.51	55.87	30.25	10.27	-37.21					
3080.0	92.81	91.51	91.5	69.27	78.75	86.37	87.74	83.81	76.88	49.53	60.92	46.41	21.45	-14.15					
2615.7	94.51	92.91	92.1	67.81	77.77	86.17	88.38	85.53	79.50	52.88	64.79	51.75	29.61	-6.17					
2333.4	95.51	93.51	91.9	67.46	76.82	84.59	87.69	86.37	81.47	54.39	68.03	56.08	35.99	3.78					
2121.3	95.91	93.51	91.3	65.29	74.74	82.79	86.19	86.40	83.09	57.57	70.61	59.47	40.94	11.35					
1958.1	96.51	92.91	90.5	64.09	73.08	80.84	84.64	85.81	83.30	58.23	71.56	61.05	43.72	14.18					
1811.2	95.21	92.81	89.7	64.24	71.60	79.29	82.39	84.95	83.15	58.82	72.39	62.37	45.96	20.61					
1732.1	95.01	91.91	89.3	64.50	71.46	78.78	82.53	84.51	82.77	58.04	72.70	63.06	47.38	22.67					
1655.1	94.91	91.61	89.1	64.89	71.29	78.85	82.47	84.19	82.39	57.86	72.70	63.41	48.38	24.55					
1594.3	94.81	91.41	88.8	64.84	71.61	78.55	82.24	83.89	82.21	57.88	72.90	63.77	49.69	26.08					
1542.9	94.51	91.01	88.4	65.89	71.01	78.00	81.45	83.25	81.87	57.73	72.82	63.67	49.50	27.04					
1493.1	94.61	91.01	88.5	65.14	71.54	77.97	82.09	83.17	81.78	57.07	73.22	64.37	50.22	28.13					
1544.7	93.91	90.41	87.9	64.49	71.19	77.53	81.60	82.74	81.67	57.53	72.51	63.54	49.51	27.14					
1508.0	93.71	90.11	87.5	64.52	71.04	77.47	80.90	82.33	80.99	57.27	72.47	63.71	49.73	27.43					
1504.7	93.61	90.11	87.5	64.27	71.00	77.46	80.52	82.24	80.91	57.08	72.27	63.49	49.67	27.40					
1523.1	93.41	89.91	87.3	62.46	70.22	77.01	80.42	81.11	80.75	57.74	71.89	63.05	48.89	28.41					
1557.4	93.81	90.31	87.4	62.15	69.46	74.69	80.29	81.94	81.59	58.18	72.28	63.32	49.95	28.41					
1594.3	93.61	89.41	86.4	61.57	68.43	75.41	79.77	80.96	80.61	57.94	71.97	62.95	48.16	25.16					
1655.1	92.91	88.91	85.8	60.53	67.42	74.55	78.75	80.35	80.37	57.21	71.12	61.72	46.83	22.91					

RUN NUMBER	121.00 (713.00)
AXIAL POSITION OF PRIMARY MNT. SECONDARY LINS:1	0.000
PRIMARY TEMPERATURE (R)	537.000
SECONDARY TEMPERATURE (R)	517.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	1.000
VELOCITY RATIO	0.845
PRIMARY VELOCITY (FT/SEC)	1206.719
MASS FLOW RATIO	1.040
PRIMARY MASS FLOW (LB/SEC)	0.333
THRUST (LBS)	23.471
ENVIRONMENTAL TEMPERATURE (R)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	45.000
CALIBRATION FACTOR (MV TO PY/SQ CM)	0.045
INSTRUMENTATION NOISE FLOOR (DB)	62.585

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	3.43485E+00	135.4	THRUST	POWER LEVEL (DB)
500	1.67292E-02	112.2	10000	161.7
1000	1.34511E-01	121.3	20000	164.7
2000	6.49912E-01	128.1	40000	167.7
4000	1.03267E+00	130.1	80000	170.7
8000	7.69636E-01	128.9		
16000	4.78449E-01	126.8		
31500	3.52945E-01	125.5		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 16000	31500	OVER ALL
15.0	92.3	100.5	102.2	105.2	99.5	94.2	87.8	108.7
20.0	91.6	100.8	102.6	105.7	101.2	95.1	89.6	110.9
25.0	89.7	99.8	107.2	107.1	102.2	96.2	91.8	111.4
30.0	87.4	98.7	106.3	107.6	103.3	97.6	93.7	111.4
35.0	86.9	96.4	104.7	106.6	103.8	98.9	94.9	110.6
40.0	85.1	94.7	102.5	104.8	103.7	99.9	96.5	109.5
45.0	82.4	91.4	99.4	102.4	102.6	100.3	97.2	107.9
50.0	81.0	88.7	96.2	100.3	101.4	100.0	97.4	106.5
55.0	79.5	87.2	94.5	98.7	100.4	99.3	97.2	105.5
60.0	79.3	86.0	93.1	97.6	99.1	98.5	97.0	104.6
65.0	79.0	85.8	92.5	96.6	98.2	97.8	96.9	103.9
70.0	78.4	85.6	92.0	96.2	97.4	97.2	96.5	103.2
75.0	78.1	85.3	91.7	96.0	97.1	96.6	96.7	103.1
80.0	78.4	84.9	91.4	95.8	96.7	96.1	96.4	102.7
85.0	77.6	85.1	91.0	95.2	96.2	95.7	94.1	102.3
90.0	77.9	84.4	90.7	94.7	96.1	95.5	94.0	102.0
95.0	76.8	84.3	90.4	94.5	96.0	95.3	95.5	101.8
100.0	76.3	84.2	89.8	94.4	95.9	95.1	95.3	101.6
105.0	75.6	83.5	89.6	94.1	95.8	95.0	94.6	101.6
110.0	75.6	82.9	89.4	94.3	95.7	95.0	94.6	101.3
115.0	75.3	82.2	88.6	93.3	95.5	94.9	94.2	100.9

MODEL THRUST = 23.471 FULL SCALE THRUST = 20000.000

L.	FNDR.	OASPL	OCTAVE 17.1	BAND 34.1	SOUND 68.5	PRESSURE 137.0	LEVELS 274.1	548.1	1079.1	2159.2	4292.2	8564.3	17129.6
5795.6	82.61	82.21	82.9	66.95	75.11	76.66	79.64	72.88	65.49	53.78	38.76	11.41	-37.44 -117.87
4345.7	87.51	86.81	87.6	68.54	77.80	83.54	83.44	77.31	69.54	60.09	44.00	26.57	-11.13 -72.72
3549.3	90.41	89.51	89.9	68.60	78.65	84.94	84.77	82.31	72.26	65.34	52.89	37.07	0.01 -44.48
3000.0	92.81	91.01	91.4	67.75	78.94	86.54	87.71	83.02	76.19	69.59	60.37	44.77	18.03 -24.06
2615.2	94.31	92.81	91.8	64.83	77.84	86.19	87.40	84.20	74.85	72.55	64.13	50.14	26.45 -11.49
2333.6	95.31	93.41	91.6	67.57	77.23	84.95	87.19	84.88	81.07	75.51	67.67	54.87	33.61 -7.77
2121.3	95.51	93.21	90.7	65.75	74.74	82.68	85.92	85.55	82.40	77.41	70.01	58.09	38.31 6.97
1948.1	95.41	92.71	90.0	65.01	72.74	80.71	84.25	84.04	82.89	74.68	71.42	60.19	41.70 12.54
1831.2	95.21	92.31	89.5	64.08	71.25	77.00	81.12	81.26	82.00	74.07	72.21	61.58	44.09 16.63
1732.1	95.11	91.91	89.0	64.15	71.08	76.33	81.82	81.82	82.63	74.42	72.42	62.45	45.94 19.81
1654.1	95.11	91.71	88.7	64.53	71.26	77.94	82.01	81.38	82.32	74.93	73.50	63.55	47.45 22.34
1594.3	94.91	91.51	88.5	64.17	71.36	77.40	81.06	82.06	82.06	74.90	73.50	61.80	48.24 21.03
1552.9	95.11	91.41	89.5	64.17	71.38	77.75	81.47	82.83	81.76	74.60	74.14	64.66	49.37 25.62
1423.1	95.21	91.11	88.4	64.54	71.04	77.61	81.44	82.42	81.44	74.12	74.14	64.74	49.71 24.36
1305.8	95.01	90.81	88.0	63.94	71.43	77.20	81.38	82.12	81.15	74.14	74.02	64.64	49.78 26.67
1200.0	94.91	90.71	87.4	64.71	70.74	76.47	80.44	82.13	80.46	74.04	71.47	64.67	49.80 24.74
1104.7	94.41	90.41	87.6	64.14	70.54	76.73	80.76	82.02	80.74	74.56	73.44	64.11	49.20 26.08
1021.1	94.11	90.11	87.3	62.46	70.14	75.98	80.48	81.74	80.44	74.27	73.11	63.71	48.66 24.11
952.9	94.01	89.81	87.0	61.07	69.53	75.50	80.01	81.54	80.16	74.33	73.11	63.85	48.38 24.58
944.3	92.91	89.31	86.5	61.44	64.72	75.19	80.62	81.17	74.89	74.09	71.44	61.97	46.34 22.02
1655.3	92.11	88.71	85.4	60.70	62.61	74.03	78.64	78.42	73.24	74.84	74.84	60.82	44.80 12.69

WIND NUMBER	122.00 (714.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (W)	527.000
SECONDARY TEMPERATURE (R)	520.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	2.007
VELOCITY RATIO	0.374
PRIMARY VELOCITY (FT/SEC)	1195.430
MASS FLOW RATIO	0.925
PRIMARY MASS FLOW (LB/SEC)	0.335
THRUST (LBS)	16.703
ENVIRONMENTAL TEMPERATURE (R)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	45.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.032
INSTRUMENTATION NOISE FLOOR (DB)	59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVCRAIL	9.03588E-01	129.6	THRUST	POWER LEVEL (DB)
500	7.44966E-03	108.8	10000	157.3
1000	5.31940E-02	117.3	20000	160.2
2000	2.25029E-01	123.4	40000	163.3
4000	3.25226E-01	125.1	80000	166.3
8000	1.84304E-01	122.7		
16000	6.95037E-02	118.4		
31500	1.40802E-02	115.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	88.7	88.0	102.6	103.0	97.1	85.4	79.1	107.1
22.5	88.3	87.0	103.8	103.4	97.8	86.7	80.7	107.3
30.0	88.3	86.6	102.6	103.6	98.1	88.5	82.1	107.2
37.5	89.3	84.3	101.5	102.7	98.3	90.3	83.8	106.5
45.0	82.9	82.0	99.3	101.3	98.3	91.0	85.6	105.1
52.5	81.0	80.9	96.2	98.0	98.1	93.0	87.2	103.4
60.0	78.5	80.4	93.2	96.4	96.2	92.7	87.8	101.3
67.5	77.2	84.7	90.8	94.3	94.9	91.9	87.3	99.7
75.0	76.0	83.1	88.0	92.8	93.8	91.1	87.4	98.9
82.5	74.2	82.4	88.4	91.6	92.4	90.0	87.0	97.8
90.0	75.1	81.8	87.4	90.5	91.5	89.8	86.2	96.8
97.5	75.1	81.6	87.1	89.8	90.8	88.5	86.3	96.8
105.0	74.0	80.8	86.3	89.2	90.0	87.6	85.9	95.3
112.5	72.1	80.9	85.2	88.7	89.2	87.1	85.9	94.8
120.0	70.9	79.9	85.4	87.9	88.7	86.6	85.3	94.2
127.5	72.0	80.1	84.9	87.0	88.3	84.2	85.3	93.9
135.0	73.8	79.1	84.3	87.2	87.7	85.9	85.0	93.6
142.5	73.2	78.9	83.9	86.8	87.3	85.3	85.3	93.1
150.0	72.6	78.6	83.6	86.1	86.7	85.2	84.8	92.6
157.5	71.6	78.3	83.3	85.8	86.3	84.5	84.4	92.3
165.0	71.6	77.7	82.8	85.2	85.6	84.0	84.6	91.0

MODEL THRUST = 10.793 PWT SCALE THRUST = 28004.888

L.	PAW.	DAW.	OCTAVE BAND	10.5	20.0	50.0	110.0	251.0	503.0	912.0	1625.0	3022.0	5240.0	10000.0
8795.0	80.61	80.81	82.4	84.76	74.03	78.80	78.74	72.22	58.80	44.31	35.36	31.73	-31.86	-182.93
4389.7	80.11	83.51	85.6	86.82	75.42	81.38	81.62	73.63	65.22	54.03	43.50	34.40	-40.82	-43.30
3549.3	80.61	84.81	87.3	86.45	73.38	82.49	83.73	77.88	67.21	58.23	49.10	39.00	-30.13	-30.80
3008.0	80.01	87.01	88.0	87.24	70.70	83.24	84.16	79.40	70.76	61.99	53.43	45.14	-20.50	-27.09
2615.8	80.11	87.01	87.0	85.85	74.41	82.25	84.16	80.90	73.66	65.61	54.02	45.71	-24.76	-26.32
2333.6	80.61	88.01	87.1	84.94	73.40	80.10	82.45	81.49	75.01	64.17	51.17	42.86	-28.64	-31.11
2121.9	80.61	87.21	86.8	83.27	71.35	77.93	81.64	80.49	76.48	70.84	63.40	52.45	-33.89	-37.80
1938.1	80.11	86.61	84.9	82.73	70.14	76.25	79.72	80.45	74.40	70.66	64.28	56.31	-37.87	-41.60
1831.2	80.01	84.12	84.3	82.10	67.19	74.04	78.79	79.50	76.30	71.29	62.13	55.62	-40.84	-45.29
1730.1	80.61	85.41	83.7	82.40	68.49	74.44	78.02	78.43	75.74	71.68	65.50	56.36	-41.64	-47.80
1645.1	80.11	84.41	81.2	82.06	68.82	74.24	77.14	78.14	75.40	71.21	64.16	56.47	-42.11	-49.44
1584.3	80.01	84.71	82.4	82.38	68.04	74.11	76.43	77.74	74.04	71.70	65.44	57.24	-42.32	-51.35
1552.9	80.61	84.21	82.5	82.37	64.24	73.40	76.00	77.22	74.37	71.44	65.41	57.36	-42.66	-52.23
1525.1	80.61	83.81	82.2	81.74	68.74	73.34	76.24	76.45	74.65	71.74	64.12	57.70	-44.24	-53.10
1497.7	80.01	83.31	81.7	81.84	67.47	73.15	74.41	74.14	73.72	71.24	64.47	57.31	-43.27	-53.60
1468.0	80.71	83.01	81.4	81.62	67.85	72.44	74.42	74.40	73.29	71.04	64.71	57.34	-44.48	-53.35
1405.7	80.21	82.51	80.9	81.58	66.40	72.03	74.40	74.24	72.46	71.08	64.41	57.05	-43.71	-52.82
1365.1	80.01	82.01	80.4	81.66	66.67	71.52	74.24	74.71	72.45	71.13	64.42	57.29	-43.64	-52.44
1352.4	80.21	81.41	79.8	81.45	66.14	71.63	73.44	73.92	71.41	70.41	64.74	56.21	-42.55	-51.18
1340.3	80.61	80.81	79.3	80.45	65.44	70.47	73.00	73.14	71.44	69.44	64.24	55.44	-41.68	-50.43
1322.1	80.01	80.41	78.5	80.44	65.09	69.79	72.03	72.32	71.03	67.00	63.76	54.27	-40.39	-49.84

RUN NUMBER	= 123.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	= 0.000
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .726
PRIMARY VELOCITY (FT/SEC)	= 1193.166
MASS FLOW RATIO	= 1.613
PRIMARY MASS FLOW (LB/SEC)	= .337
THRUST (LBS)	= 27.081
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PLR CENT)	= 65.000
CALIBRATION FACTOR (MV TO DY/50 CM)	= .056
INSTRUMENTATION NOISE FLOOR (DB)	= 84.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.50004E+00	136.5	THRUST	POWER LEVEL (DB)
500	4.31218E-02	116.3	10000	162.2
1000	3.02269E-01	124.4	20000	165.2
2000	1.00094E+00	130.0	40000	168.2
4000	1.18910E+00	130.7	80000	171.2
8000	1.01269E+00	130.1		
16000	4.12561E-01	127.9		
31500	3.46391E-01	125.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	96.2	100.3	107.1	104.8	100.9	96.3	92.9	111.1
20.0	94.8	104.0	108.2	106.6	102.5	98.8	94.7	112.3
25.0	93.5	103.0	108.6	107.9	104.4	100.7	96.8	113.0
30.0	91.2	101.4	107.7	108.2	105.1	101.4	97.4	112.8
35.0	84.2	99.7	106.3	107.5	105.6	101.9	98.3	112.2
40.0	86.8	97.2	104.2	106.0	105.5	102.4	98.8	111.3
45.0	85.0	94.2	100.8	103.6	104.5	102.3	99.3	109.6
50.0	84.3	92.1	98.3	101.5	103.1	101.3	98.8	108.1
55.0	85.3	92.7	97.6	100.1	102.0	100.4	97.9	107.1
60.0	85.5	92.3	96.8	98.9	100.5	99.4	97.0	105.9
65.0	85.7	91.9	95.8	98.0	99.6	98.5	96.6	105.1
70.0	85.1	91.7	95.2	97.1	98.3	97.0	95.7	104.1
75.0	85.5	91.6	94.4	96.5	97.5	96.7	95.3	103.6
80.0	84.6	90.4	93.7	95.5	96.5	95.9	94.1	102.4
85.0	84.0	89.9	93.4	95.1	96.0	95.2	94.2	102.2
90.0	83.1	89.2	92.9	94.8	95.5	94.7	93.8	101.7
95.0	82.5	88.4	92.3	93.9	95.3	94.1	93.0	101.1
100.0	81.2	87.1	91.6	93.2	94.4	93.0	92.8	100.6
105.0	81.5	86.8	91.2	92.7	94.3	93.3	92.1	100.1
110.0	79.6	85.5	90.5	92.8	94.4	93.0	92.4	99.9
115.0	78.8	84.2	89.2	91.7	93.7	92.9	91.9	99.3

MODEL THRUST = 27.081 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE		BAND		SOUND		PRESSURE		LEVELS			
			18.4	36.8	73.6	147.2	294.4	588.8	1159.1	2318.2	4599.7	9199.4	18398.7	
3795.6	83.61	83.11	84.7	70.18	78.26	80.96	78.40	72.68	66.56	57.42	41.41	12.33	-39.30	-123.55
4385.7	88.51	87.71	85.3	71.21	80.10	84.52	82.71	77.94	72.40	61.98	51.16	24.40	-11.46	-75.84
5549.3	92.71	91.11	90.9	71.75	81.25	86.51	85.23	81.95	76.80	65.26	54.29	32.31	6.33	-68.22
6000.0	94.31	93.01	92.1	70.92	81.06	87.36	87.64	84.09	79.15	72.19	62.45	45.45	17.76	-27.28
2015.2	96.01	94.01	92.7	70.07	80.55	87.10	86.14	85.88	81.13	74.70	68.04	51.26	26.32	-13.36
2339.6	96.91	95.11	92.6	68.51	79.07	86.04	87.71	84.90	83.00	76.84	68.60	55.10	32.52	-3.19
2121.3	96.71	94.81	91.7	67.71	78.92	83.44	86.12	86.75	83.65	74.52	70.76	58.71	37.41	4.66
1958.1	96.51	94.11	90.4	67.68	75.70	81.62	84.80	86.03	83.50	78.44	71.58	59.77	46.36	9.49
1831.2	96.31	93.71	90.4	65.29	74.07	81.50	83.94	85.54	83.19	74.27	71.76	60.51	62.15	13.48
1732.1	95.71	93.01	89.4	70.00	76.77	81.05	83.24	84.57	82.72	74.66	71.00	61.00	63.47	16.19
1645.1	95.41	92.61	89.4	70.53	76.78	80.59	82.74	84.10	82.26	74.73	72.01	61.56	64.68	18.40
1596.3	94.81	91.81	88.6	70.31	76.83	80.32	82.14	83.14	81.17	74.74	71.05	61.47	65.87	19.70
1552.9	94.51	91.41	88.5	70.95	76.93	79.82	81.90	82.60	81.89	78.20	71.71	61.72	65.69	20.93
1523.1	93.81	90.61	87.7	70.14	76.00	79.23	81.02	81.74	80.54	77.37	70.45	61.69	65.31	20.90
1495.7	93.51	90.21	87.4	69.69	75.61	79.09	80.55	81.32	79.90	77.41	71.04	61.26	65.62	21.52
1500.0	91.11	88.81	87.0	68.05	74.67	78.61	80.43	80.90	79.44	77.05	70.68	60.93	65.36	21.31
1500.7	92.41	89.71	88.3	69.14	74.04	77.96	79.51	80.55	78.01	76.21	69.03	60.65	64.42	20.31
1523.1	91.71	88.51	85.6	68.85	72.71	77.13	78.64	79.44	78.47	75.29	64.48	59.42	63.84	19.49
1542.9	91.81	87.91	85.8	68.89	72.19	75.57	77.05	78.36	77.72	74.49	64.50	58.51	62.48	17.72
1596.3	90.81	87.51	84.5	68.54	70.67	75.66	77.42	78.18	77.15	74.44	64.40	54.71	61.82	14.44
1625.1	89.41	86.21	83.2	69.78	69.82	74.03	76.14	77.11	76.72	74.03	67.35	56.90	60.81	13.51

RUN NUMBER	124.00 (715.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	525.000
SECONDARY TEMPERATURE (R)	525.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	2.087
VELOCITY RATIO	0.660
PRIMARY VELOCITY (FT/SEC)	1193.100
MASS FLOW RATIO	2.030
PRIMARY MASS FLOW (LB/SEC)	1.335
THRUST (LBS)	34.093
ENVIRONMENTAL TEMPERATURE (R)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	45.000
CALIBRATION FACTOR (INV TO OV/50 CM)	0.071
INSTRUMENTATION NOISE FLOOR (DB)	46.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	6.86688E+00	138.4	THRUST	POWER LEVEL (DB)
500	4.72566E-02	116.7	10000	143.0
1000	4.37251E-01	126.4	20000	146.1
2000	1.48028E+00	131.7	40000	149.1
4000	1.84959E+00	132.7	80000	152.1
8000	1.52990E+00	131.8		
16000	9.76308E-01	129.9		
31500	5.39518E-01	127.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	96.3	103.4	100.4	106.4	101.7	97.0	92.0	112.1
20.0	95.4	102.9	100.7	105.8	102.1	98.0	91.4	113.8
25.0	94.5	102.5	110.2	105.0	105.8	100.7	96.5	114.5
30.0	92.7	102.1	110.6	102.6	100.0	101.2	92.4	114.4
35.0	90.0	100.0	100.3	100.1	100.7	102.0	99.3	113.0
40.0	88.5	98.2	100.0	107.7	107.2	104.0	100.8	112.9
45.0	86.3	104.0	103.2	105.6	100.2	104.0	101.3	112.1
50.0	85.0	92.0	99.9	102.5	104.9	103.2	100.5	109.2
55.0	84.1	91.5	97.8	102.0	103.6	102.2	99.9	108.6
60.0	84.4	91.3	97.2	100.7	102.2	102.5	98.9	107.6
65.0	84.3	91.5	96.6	100.0	101.6	100.5	98.7	106.9
70.0	84.4	91.5	96.1	99.8	100.0	100.0	98.6	106.4
75.0	84.3	91.4	95.7	98.0	99.9	99.6	97.7	105.0
80.0	84.2	90.9	95.0	98.2	99.4	98.0	97.0	105.1
85.0	83.5	90.4	95.0	97.0	98.8	98.2	96.6	104.7
90.0	82.0	89.9	94.2	97.2	95.1	97.6	95.3	103.9
95.0	82.6	89.7	94.2	96.9	97.7	97.1	95.2	103.6
100.0	81.9	88.6	93.0	96.5	97.2	96.8	95.0	103.2
105.0	81.7	87.6	93.1	96.0	96.8	96.4	94.1	102.7
110.0	79.9	86.0	92.8	95.0	96.5	96.0	94.1	102.3
115.0	79.0	85.0	91.5	94.7	96.8	100.4	93.7	100.1

MODEL THRUST = 34.093 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE BAND		SOUND	PRESSURE	LEVELS							
			20.0	41.3	62.6	105.1	230.3	600.0	1300.5	2001.1	5100.9	10221.0	20042.0	
5798.6	84.11	83.71	84.6	69.27	76.06	81.20	78.88	73.06	65.44	56.90	37.16	5.07	-51.26	-141.04
4305.7	80.31	80.71	80.0	70.75	80.31	86.94	85.81	78.31	70.89	61.49	47.34	22.33	-21.03	-90.31
3565.2	82.71	81.01	81.3	71.70	80.67	87.24	86.72	82.00	75.28	67.01	54.90	34.17	-14.59	-58.13
3000.0	84.71	83.81	83.7	71.42	81.75	88.58	86.06	83.87	78.25	71.39	60.76	42.70	12.09	-10.24
2615.2	86.31	85.01	85.2	70.71	80.65	88.10	88.75	85.00	80.70	74.20	64.55	48.02	21.35	-21.17
2333.6	87.71	86.11	86.2	69.38	79.08	86.80	88.34	87.40	83.17	77.31	68.30	53.67	29.19	-9.07
2121.3	88.31	86.41	86.2	67.98	85.72	88.04	87.15	87.31	84.13	78.95	70.56	56.71	34.39	-6.07
1950.1	87.91	85.31	85.5	67.30	75.24	82.24	85.76	84.81	84.11	79.55	71.57	58.74	37.72	5.13
1831.2	86.91	84.61	84.8	67.09	74.60	80.79	84.87	84.10	83.44	78.37	71.72	59.53	37.08	9.08
1732.1	86.31	83.81	84.1	67.01	74.79	80.74	83.48	85.16	82.93	79.10	71.70	60.00	41.06	11.89
1655.1	86.41	83.81	84.0	68.12	75.30	80.46	83.48	84.08	83.10	79.44	72.26	60.95	42.72	14.71
1596.7	86.31	83.81	84.0	68.62	75.67	80.24	83.50	84.57	82.99	79.44	72.53	61.51	43.82	16.70
1552.9	85.91	83.11	83.5	68.67	75.82	80.11	83.17	83.93	82.87	79.19	72.25	61.45	44.10	17.49
1523.1	85.41	82.71	83.1	68.84	75.10	79.59	82.49	83.58	82.25	78.72	71.85	61.20	44.10	18.17
1505.7	85.01	82.31	83.1	68.15	75.07	79.63	82.46	83.08	81.74	78.60	71.57	61.02	44.10	18.41
1500.0	84.21	81.51	82.0	67.32	74.59	79.41	81.44	82.42	81.17	77.71	70.34	59.09	43.06	17.19
1495.7	83.91	81.21	81.7	67.05	74.35	78.80	81.47	81.99	80.64	77.08	70.75	59.09	42.03	17.08
1473.1	83.31	80.61	81.2	66.47	73.23	78.41	80.44	81.37	80.23	76.67	69.80	59.15	42.16	16.12
1452.4	82.51	80.01	80.6	66.52	72.03	77.47	80.74	80.81	79.64	74.57	68.67	57.03	40.54	14.07
1406.3	81.91	79.21	79.8	66.12	70.79	76.64	79.62	80.27	79.98	75.25	68.19	56.40	39.40	12.37
1359.1	82.41	81.71	81.1	69.04	72.31	78.39	82.17	82.94	74.41	67.20	55.02	37.00	36.03	

RUN NUMBER		
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	125.00	(717.00)
PRIMARY TEMPERATURE (IN)	0.000	
SECONDARY TEMPERATURE (IN)	515.000	
PRIMARY PRESSURE RATIO	505.000	
AREA RATIO	2.500	
VELOCITY RATIO	4.850	
PRIMARY VELOCITY (FT/SEC)	0.377	
MASS FLOW RATIO	1181.742	
PRIMARY MASS FLOW (LBM/SEC)	1.067	
THRUST (LBS)	0.335	
ENVIRONMENTAL TEMPERATURE (IN)	20.030	
ENVIRONMENTAL PRESSURE (IN.HG)	516.000	
ENVIRONMENTAL HUMIDITY (PER CENT)	20.000	
CALIBRATION FACTOR (MV TO DY/50 CM)	60.000	
INSTRUMENTATION NOISE FLOOR (DB)	0.222	
	56.584	

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	7.33254E-01	128.7	THRUST	POWER LEVEL (DB)
500	1.24008E-02	110.9	10000	155.6
1000	4.24852E-02	118.3	20000	158.6
2000	1.38103E-01	121.4	40000	161.7
4000	2.12097E-01	123.3	80000	164.7
8000	1.74119E-01	122.4		
16000	1.00955E-01	120.0		
31500	5.30955E-02	117.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	94.3	93.0	94.6	94.6	91.9	89.9	87.8	101.3
20.0	94.3	94.6	98.0	98.8	96.2	90.6	88.3	103.7
25.0	87.2	94.6	99.4	100.2	97.3	90.7	88.7	104.7
30.0	86.3	93.6	99.1	100.1	97.2	91.3	89.0	104.5
35.0	84.6	92.2	98.4	99.9	97.4	92.5	89.6	104.3
40.0	82.3	89.9	96.5	99.0	97.1	92.8	89.3	103.3
45.0	80.1	87.4	93.6	96.7	96.6	93.3	89.1	101.8
50.0	78.7	85.4	91.3	94.4	95.3	91.7	87.2	100.5
55.0	78.0	83.8	89.5	93.2	94.6	93.5	90.1	99.8
60.0	77.5	83.2	88.4	91.5	92.9	92.2	89.4	98.4
65.0	77.3	82.3	87.7	90.4	91.8	91.3	89.0	97.5
70.0	77.1	82.4	86.9	89.8	91.0	90.8	88.8	96.8
75.0	77.0	81.8	86.6	89.1	90.4	90.2	87.2	96.2
80.0	76.7	81.1	85.7	88.4	89.7	89.2	86.9	95.4
85.0	75.7	81.1	85.4	87.9	88.9	88.5	86.4	94.8
90.0	75.7	80.1	84.8	87.4	88.3	88.0	86.0	94.3
95.0	75.2	80.3	84.6	87.0	88.0	87.3	85.7	93.9
100.0	74.8	79.5	84.2	86.6	87.9	87.0	84.9	93.4
105.0	73.9	79.3	83.9	86.2	87.5	86.6	84.5	93.2
110.0	73.9	78.9	83.3	85.5	87.1	86.0	84.2	92.6
115.0	72.4	78.3	82.9	84.8	86.4	85.1	83.8	92.0

MODEL THRUST = 20.030 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE		BAND	SOUND		PRESSURE		LEVELS				
			15.0	31.6	63.1	126.0	251.2	506.2	996.9	1993.7	3955.8	7911.5	15823.1	
5795.6	75.01	74.11	74.1	69.55	68.23	69.81	69.59	66.14	62.19	55.34	41.35	15.82	-30.09	-106.39
4385.7	81.51	80.51	81.0	66.02	72.32	75.61	75.27	73.15	66.02	60.17	48.84	28.79	-6.67	-45.15
3549.3	85.21	83.71	84.0	66.70	74.18	78.87	79.51	76.22	69.45	61.55	51.81	37.82	7.74	-88.15
3000.0	86.41	85.31	85.2	67.26	74.57	80.05	80.45	77.63	70.78	65.98	57.28	42.62	17.41	-73.53
2615.2	87.51	86.81	86.2	66.84	74.00	80.57	81.98	79.14	73.32	68.30	60.34	47.17	24.81	-11.26
2333.6	88.21	87.21	86.2	65.49	73.05	79.62	82.07	79.85	74.81	69.39	61.96	49.89	29.62	-2.90
2121.3	89.41	87.21	85.4	64.11	71.36	77.59	80.50	80.22	76.27	70.28	63.25	52.01	33.30	3.47
1958.7	90.51	86.91	84.7	63.45	70.01	75.94	79.05	79.69	77.37	71.60	65.08	54.47	36.98	9.21
1831.2	90.41	87.01	84.6	63.33	69.09	74.82	78.42	79.57	77.98	72.57	66.50	56.38	39.82	13.64
1732.1	90.31	86.21	83.7	63.31	68.94	74.15	77.23	78.42	77.13	73.06	66.77	57.04	41.22	16.31
1655.1	90.41	85.61	83.2	63.44	69.50	73.86	76.44	77.67	76.60	73.00	66.66	57.62	42.17	18.24
1596.3	90.61	85.41	82.8	63.62	69.40	73.37	76.15	77.24	76.44	73.34	66.32	57.11	42.29	19.10
1552.9	90.31	85.01	82.5	63.72	68.49	73.35	75.73	76.40	76.08	71.89	65.94	56.91	42.41	19.77
1523.1	90.41	84.31	81.9	63.61	67.95	72.61	75.22	76.32	76.32	71.74	65.85	56.93	42.65	20.38
1505.7	90.31	83.81	81.4	62.65	67.65	72.30	74.72	75.68	74.73	71.40	65.54	56.62	42.54	20.50
1500.0	90.41	83.31	81.0	62.68	67.12	71.79	74.14	75.06	74.24	71.04	65.20	56.37	42.24	20.24
1505.7	90.21	82.71	80.5	62.15	67.29	71.70	73.84	74.69	73.51	70.67	64.81	55.96	41.81	19.73
1523.1	90.61	82.11	79.9	61.71	66.35	71.07	73.37	74.83	73.10	69.74	63.85	54.93	40.66	18.39
1552.9	90.01	81.61	79.5	60.80	65.67	70.17	72.44	73.41	72.54	69.15	63.21	54.17	39.67	17.63
1596.3	90.21	80.81	78.7	60.38	65.37	69.72	71.87	73.29	71.88	68.45	62.53	53.32	38.51	16.32
1655.1	90.01	79.81	77.7	59.55	64.65	69.04	70.45	72.23	70.39	67.75	61.61	52.18	36.92	12.99

RUN NUMBER	= 126.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	= 0.000
PRIMARY TEMPERATURE (IN)	= 511.000
SECONDARY TEMPERATURE (IN)	= 515.000
PRIMARY PRESSURE RATIO	= 7.500
AREA RATIO	= 6.856
VELOCITY RATIO	= .729
PRIMARY VELOCITY (FT/SEC)	= 1177.144
MASS FLOW RATIO	= 3.346
PRIMARY MASS FLOW (LB/SEC)	= .348
THRUST (LBS)	= 42.685
ENVIRONMENTAL TEMPERATURE (IN)	= 518.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	= 98.999
CALIBRATION FACTOR (MV TO DY/50 CM)	= .000
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.10586E-00	133.2	THRUST	POWER LEVEL (DB)
500	7.93467E-02	119.9	10000	156.9
1000	3.23879E-01	125.1	20000	159.9
2000	5.70920E-01	127.6	40000	163.0
4000	4.96596E-01	127.0	80000	166.8
8000	3.58710E-01	125.5		
16000	1.78123E-01	122.5		
31500	9.92819E-02	119.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	SOUND PRESSURE LEVELS	4000	8000	16000	31500	OVERALL
										ALL
15.0	97.8	101.7	100.2	94.5	88.3	90.2	85.9	103.6		
20.0	98.8	103.9	102.4	98.6	92.4	91.4	85.9	108.1		
25.0	97.3	103.4	104.0	100.7	95.3	90.0	87.6	108.7		
30.0	95.2	103.0	104.7	101.3	95.3	91.1	88.2	108.8		
35.0	93.0	101.0	103.9	102.3	98.3	93.1	89.8	108.2		
40.0	92.1	99.2	102.2	101.9	99.1	94.2	90.2	107.8		
45.0	89.7	98.2	100.6	101.1	99.6	95.3	91.6	106.3		
50.0	87.5	96.9	98.0	97.4	95.8	95.3	91.8	104.9		
55.0	86.2	92.4	97.5	98.5	98.5	95.6	92.5	104.6		
60.0	85.6	91.2	95.9	97.6	97.3	95.0	92.4	103.3		
65.0	85.4	91.0	95.1	96.9	97.0	94.8	92.1	102.9		
70.0	85.3	90.1	94.1	95.8	96.0	94.1	91.8	102.0		
75.0	84.9	90.0	93.0	95.7	95.4	93.6	91.4	101.6		
80.0	84.6	88.9	92.0	94.0	94.8	92.9	91.0	100.9		
85.0	84.5	88.0	92.4	94.6	94.5	92.2	90.5	100.8		
90.0	83.9	87.4	92.2	94.3	93.7	91.5	89.9	99.9		
95.0	83.3	87.0	91.7	93.6	93.5	90.8	89.3	99.8		
100.0	82.4	87.3	91.3	92.9	93.8	90.2	88.8	98.9		
105.0	81.6	86.6	90.7	92.7	92.8	89.8	88.1	98.5		
110.0	80.5	86.1	90.1	92.2	92.1	89.0	87.4	98.0		
115.0	81.0	86.1	90.1	91.9	92.1	88.3	86.8	97.7		

MODEL THRUST = 42.685 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND	SOUND PRESSURE LEVELS	20.0	30.2	42.4	54.8	69.9	73.2	1455.2	2210.5	5726.7	11549.5	23092.0
5795.6	73.41	73.11	77.3	69.77	73.61	71.98	65.87	54.39	57.88	65.11	25.50	-9.77	-70.98	-167.95	
4385.7	80.31	79.91	82.3	72.43	78.20	77.88	72.59	66.44	61.95	50.76	35.19	7.77	-39.28	-113.39	
3549.7	84.11	83.51	84.7	73.60	79.62	80.92	74.54	70.62	64.05	50.15	42.94	20.22	-10.43	-75.49	
3080.0	86.31	85.51	86.1	73.70	80.73	82.33	74.65	73.05	66.71	54.60	47.80	24.10	-5.83	-64.68	
2615.2	88.61	87.61	88.4	72.64	79.44	82.75	80.95	76.36	69.73	62.98	52.48	34.92	-5.68	-54.75	
2335.6	89.61	88.41	88.9	72.01	79.05	82.31	81.52	76.30	71.99	65.64	55.35	34.36	12.92	-57.91	
2121.3	90.61	89.21	88.6	70.48	76.96	81.07	81.62	79.62	74.17	67.66	58.58	43.77	19.46	-17.93	
1950.1	90.51	88.91	85.4	68.86	74.88	79.97	80.60	74.55	75.81	64.71	60.10	46.70	23.53	-11.22	
1831.7	91.11	89.31	85.8	68.18	74.43	79.42	80.27	74.95	74.04	70.52	67.27	49.08	27.54	-5.01	
1732.1	90.81	88.81	85.2	68.05	73.69	78.37	79.74	79.27	75.94	71.15	63.18	50.46	30.15	-0.46	
1655.1	90.91	88.91	85.2	68.26	73.88	77.90	79.65	79.53	76.27	71.36	63.61	51.40	31.78	-1.90	
1596.3	90.51	88.41	84.6	68.66	73.27	77.22	78.85	78.72	75.85	71.50	62.93	52.64	33.81	0.13	
1552.9	90.41	88.11	84.5	68.33	73.39	77.17	78.93	77.36	75.42	71.44	64.01	52.36	33.78	5.58	
1523.1	89.91	87.61	83.9	68.20	72.51	74.44	76.31	77.77	75.18	71.29	63.92	52.44	34.15	6.48	
1504.7	89.61	87.41	83.7	69.19	72.34	74.02	74.15	77.71	74.40	70.92	61.51	52.22	34.16	6.88	
1500.0	89.01	86.71	83.2	67.13	71.67	75.85	77.45	76.47	73.84	70.34	63.04	51.49	33.82	0.30	
1505.7	88.41	86.31	82.7	66.97	71.24	75.40	77.20	76.71	73.17	69.71	62.40	51.01	32.89	5.47	
1523.1	87.91	85.81	82.0	65.00	70.42	74.87	76.34	74.08	72.47	69.66	61.69	50.71	31.92	4.22	
1557.9	87.21	85.01	81.4	65.00	70.07	74.12	75.94	74.75	71.57	68.17	60.72	49.87	30.47	2.20	
1594.3	86.31	84.21	80.6	63.69	69.13	73.26	74.73	74.74	70.79	67.12	64.56	47.68	28.62	-0.70	
1655.1	85.61	83.51	79.8	63.85	68.43	72.44	74.62	74.33	69.70	66.03	64.29	46.87	28.53	-1.17	

BIN NUMBER	=	127.00 (119.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (IN)	=	511.000
SECONDARY TEMPERATURE (IN)	=	515.000
PRIMARY PRESSURE RATIO	=	2.500
AREA RATIO	=	1.250
VELOCITY RATIO	=	0.866
PRIMARY VELOCITY (FT/SEC)	=	1177.144
MASS FLOW RATIO	=	4.135
PRIMARY MASS FLOW (LB/SEC)	=	0.335
THRUST (LBS)	=	55.900
ENVIRONMENTAL TEMPERATURE (IN)	=	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	=	60.000
CALIBRATION FACTOR (MV TO DY/SU CM)	=	0.063
INSTRUMENTATION NOISE FLOOR (DB)	=	65.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.26876E+00	137.2	THRUST	POWER LEVEL (DB)
500	1.83497E-01	122.6	10000	159.7
1000	7.84389E-01	128.9	20000	162.7
2000	1.30856E+00	131.5	40000	165.8
4000	1.13310E+00	130.5	80000	168.8
8000	9.32251E-01	129.7		
16000	5.46053E-01	127.4		
31500	2.90917E-01	124.6		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	SOUND PRESSURE LEVELS	4000	8000	16000	31500	OVER ALL
15.0	102.0	106.0	105.8	100.2	95.2	91.3	86.7	110.4		
20.0	101.8	107.7	108.2	103.3	99.5	92.9	88.1	112.3		
25.0	101.1	107.9	109.0	104.3	99.3	94.6	91.0	112.9		
30.0	99.8	106.8	108.8	105.0	100.9	95.3	92.7	112.6		
35.0	97.6	105.6	108.2	105.7	102.6	98.3	94.7	112.4		
40.0	95.4	102.3	106.5	105.6	103.3	99.4	95.5	111.3		
45.0	92.7	99.5	103.9	104.7	103.9	100.4	96.8	110.2		
50.0	90.7	97.4	102.1	103.6	103.5	100.7	97.3	109.3		
55.0	88.8	95.1	100.3	102.3	102.5	100.4	97.7	108.2		
60.0	86.3	93.0	98.8	101.0	101.7	100.0	97.0	107.2		
65.0	88.3	93.7	98.0	100.2	100.9	99.3	97.0	106.6		
70.0	87.6	93.0	97.1	99.5	100.1	98.6	96.4	105.9		
75.0	87.9	92.6	96.8	98.6	99.3	97.9	96.1	105.2		
80.0	87.6	92.0	96.0	98.3	98.8	97.5	95.8	104.7		
85.0	87.1	91.5	95.6	97.5	98.1	96.7	94.2	104.0		
90.0	86.5	91.2	95.2	97.1	97.9	96.4	93.9	103.6		
95.0	86.2	90.7	94.8	96.7	97.4	95.8	93.5	103.2		
100.0	85.4	90.0	94.3	96.0	96.8	95.5	92.2	102.7		
105.0	84.6	89.6	93.8	95.7	96.5	95.1	92.7	102.3		
110.0	84.3	89.3	93.7	95.3	96.0	94.9	92.5	102.0		
115.0	83.2	88.7	92.8	94.9	95.8	94.3	91.9	101.4		

MODEL THRUST = 55.900 FULL SCALE THRUST = 20000.000

L	PHOB.	OASPL	26.5	OCTAVE BAND	105.8	SOUND PRESSURE LEVELS	423.2	846.5	1686.5	3333.0	6613.2	13226.4	26452.8
5795.6	78.7 (78.5)	80.9	72.77	76.75	76.39	70.28	63.74	55.90	42.55	20.44	-19.00	-86.46	-191.38
4385.7	84.5 (84.2)	85.3	75.67	80.85	81.24	75.92	69.98	61.46	47.99	32.53	1.95	-49.82	-129.95
3549.3	87.7 (87.3)	87.7	78.19	82.96	83.97	78.87	72.98	65.94	54.00	42.19	14.87	-25.80	-71.82
3080.8	89.4 (89.2)	89.9	78.38	83.34	85.21	81.14	76.29	69.61	61.43	49.53	26.67	-9.69	-44.45
2615.2	92.0 (91.1)	89.7	75.32	83.34	85.83	83.04	79.27	73.27	65.71	54.09	34.84	2.55	-46.44
2333.4	93.0 (92.0)	89.6	74.15	81.01	85.14	84.03	81.08	75.62	68.23	57.53	39.86	10.91	-33.13
2121.3	94.0 (92.7)	89.1	72.21	79.06	83.38	83.97	82.57	77.74	70.63	60.83	44.49	17.90	-22.41
1958.1	94.4 (92.9)	88.8	70.48	77.61	82.24	83.58	82.94	78.86	72.46	63.01	47.69	22.92	-14.52
1831.2	95.1 (92.7)	89.2	69.61	75.99	81.10	82.92	82.57	79.29	73.80	65.70	50.25	26.81	-8.38
1732.1	94.1 (92.4)	87.7	69.48	75.25	80.01	82.12	82.31	79.42	73.86	65.15	51.26	29.99	-4.47
1655.1	94.0 (92.1)	87.4	69.97	75.35	79.62	81.70	81.43	79.21	74.45	65.49	52.59	31.18	-0.93
1596.1	93.7 (91.8)	87.1	69.83	74.97	79.67	81.13	81.51	78.88	74.32	66.05	53.02	32.26	1.19
1552.9	93.4 (91.4)	86.7	70.20	74.89	79.03	80.69	80.91	79.55	74.30	66.26	53.50	33.23	2.92
1523.1	93.1 (91.0)	86.4	70.03	74.42	78.42	80.41	80.63	78.35	73.88	65.86	53.78	33.34	3.55
1505.7	92.3 (90.3)	85.8	69.66	73.79	78.10	79.55	79.54	77.46	72.25	64.89	52.62	32.60	3.28
1508.0	92.1 (90.1)	85.4	69.07	73.71	77.51	79.56	79.45	77.36	72.44	64.50	52.07	32.34	3.00
1505.7	91.8 (89.8)	85.0	68.78	73.14	77.31	78.99	79.36	76.71	72.11	64.14	51.67	31.93	2.65
1521.1	91.0 (89.9)	84.3	67.84	72.46	76.68	78.23	78.68	76.34	71.76	63.74	51.17	31.23	1.44
1552.9	90.7 (89.3)	83.7	66.90	71.92	75.97	77.41	77.14	75.47	70.90	62.78	50.81	29.74	-0.57
1596.3	89.7 (87.7)	83.2	64.33	71.27	75.66	77.15	77.41	75.18	70.44	62.19	49.14	28.39	-2.69
1655.1	89.0 (87.9)	82.3	63.49	70.35	74.42	76.10	76.25	74.22	69.30	60.44	47.63	26.82	-6.88

RUN NUMBER	128,000
AXIAL POSITION OF PRIMARY WHT, SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (M)	517.000
SECONDARY TEMPERATURE (R)	523.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	9.200
VELOCITY RATIO	0.303
PRIMARY VELOCITY (FT/SEC)	1104.034
MASS FLOW RATIO	3.175
PRIMARY MASS FLOW (LB/SEC)	3337
THRUST (LBS)	27,449
ENVIRONMENTAL TEMPERATURE (R)	520.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.920
ENVIRONMENTAL HUMIDITY (PER CENT)	40.000
CALIBRATION FACTOR (MV TO DY/50 CH)	0.020
INSTRUMENTATION NOISE FLOOR (DB)	22,999

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	5.36839E-01	127.3	THRUST 20000 POWER LEVEL (DB) 152.9
500	1.29511E-02	111.1	20000 155.9
1000	4.49669E-02	116.5	40000 158.9
2000	1.17517E-01	120.7	80000 161.9
4000	1.58755E-01	122.0	
8000	1.86521E-01	120.2	
16000	6.01716E-02	117.8	
31500	3.59584E-02	115.8	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	88.7	93.6	95.2	95.3	90.7	89.2	86.5	100.9
20.0	89.4	95.8	97.6	97.5	92.7	88.6	86.9	102.7
25.0	88.8	94.6	96.2	96.2	93.4	87.6	87.4	103.1
30.0	86.7	93.6	96.1	96.7	94.4	87.0	87.0	103.1
35.0	85.4	91.6	97.1	98.3	94.0	89.0	87.3	102.6
40.0	83.6	90.1	95.8	97.8	95.3	90.2	86.8	102.8
45.0	82.2	88.1	93.3	96.1	95.0	91.1	86.9	100.8
50.0	80.6	84.4	91.3	95.2	94.3	91.7	87.3	99.7
55.0	79.6	84.9	89.7	92.0	92.6	91.7	88.0	98.3
60.0	79.8	85.0	88.8	90.6	91.7	90.7	88.0	97.3
65.0	79.2	83.1	87.6	89.3	89.9	89.4	87.6	96.1
70.0	78.1	82.8	86.8	88.8	89.1	88.8	87.0	95.5
75.0	78.2	81.9	86.0	87.3	87.7	87.8	86.3	94.4
80.0	78.1	82.0	85.5	87.3	87.6	87.0	85.8	94.1
85.0	76.9	81.5	85.2	86.7	87.1	86.2	85.2	93.5
90.0	76.8	81.0	84.6	86.1	86.4	85.4	84.6	92.9
95.0	76.1	80.1	83.9	85.5	85.9	84.9	84.0	92.3
100.0	76.0	80.2	83.7	84.7	85.3	84.3	83.3	91.7
105.0	75.1	79.4	83.1	84.2	84.9	83.9	82.0	91.2
110.0	74.5	78.8	82.6	83.9	84.4	83.2	82.1	90.7
115.0	73.8	78.4	82.1	83.1	84.2	82.7	81.5	90.2

MODEL THRUST = 27,449

FULL SCALE THRUST = 20000.000

L	#NOB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS										
			10.5	37.9	74.1	149.2	298.4	592.7	1187.0	2332.9	4620.8	9241.6	18523.2
5795.6	73.2 (72.5)	74.2	63.62	67.49	68.99	68.76	63.27	59.33	50.86	34.75	5.58	-46.48	-131.01
4305.7	70.4 (77.5)	73.6	65.73	71.32	73.84	73.52	64.06	61.86	56.07	43.15	20.24	-19.72	-84.47
3549.3	81.4 (80.3)	80.9	66.98	72.75	76.30	76.11	70.20	63.51	55.70	48.77	29.69	-3.26	-56.24
3008.0	43.6 (42.3)	82.4	66.55	73.25	77.66	78.11	73.35	65.48	61.71	51.93	35.34	7.03	-39.22
2615.2	84.9 (83.4)	83.1	66.65	72.67	77.86	78.94	74.98	68.14	63.79	54.88	40.03	14.97	-24.88
2333.6	86.2 (84.5)	83.5	65.42	71.86	77.41	79.62	76.60	70.53	64.79	56.51	42.94	20.25	-15.61
2121.3	86.7 (84.9)	83.0	64.82	70.77	75.93	78.60	77.21	72.39	66.03	58.24	45.63	24.73	-8.14
1958.1	87.0 (84.9)	82.5	64.19	69.75	74.60	77.60	77.22	73.65	67.64	60.21	48.34	28.82	-1.76
1831.2	86.7 (84.2)	81.7	63.50	68.84	73.54	75.77	74.08	71.49	67.91	61.77	50.67	32.02	3.24
1732.1	86.4 (83.7)	81.2	64.17	68.45	73.21	74.85	75.25	73.45	69.61	62.69	51.45	34.23	6.84
1645.1	85.9 (82.9)	80.4	64.01	67.93	72.34	73.94	74.30	73.12	69.64	62.91	52.42	35.43	9.15
1596.3	85.7 (82.6)	80.1	63.20	67.91	71.21	73.41	73.82	72.86	69.50	62.69	52.66	36.19	10.71
1552.9	85.0 (81.8)	79.3	63.55	67.24	71.30	72.54	72.74	72.19	69.13	62.62	52.58	36.48	11.61
1527.1	84.7 (81.5)	79.2	63.61	67.55	71.05	72.76	72.82	71.54	68.84	62.39	52.49	36.64	12.20
1505.7	84.2 (80.4)	78.7	62.55	67.17	70.81	72.24	72.41	70.88	68.74	61.94	52.17	36.42	12.71
1500.0	83.6 (80.3)	78.1	62.46	66.88	70.20	71.44	71.74	70.32	67.81	61.41	51.47	35.96	11.44
1505.7	82.9 (79.4)	77.5	61.77	65.70	69.43	71.04	71.22	69.44	67.14	60.73	50.91	35.21	11.01
1425.1	82.1 (78.9)	76.8	61.54	65.49	69.16	70.13	70.49	68.85	66.34	59.89	49.99	34.14	9.70
1347.9	81.0 (78.2)	76.1	60.50	64.76	68.43	69.43	69.49	67.84	65.41	58.18	49.04	32.96	8.49
1346.1	80.4 (77.5)	75.6	59.43	63.91	67.47	68.43	68.41	67.28	64.84	57.03	47.86	31.33	5.45
1059.1	79.4 (76.5)	74.9	58.63	63.19	66.88	67.78	67.49	66.40	63.93	56.00	46.39	29.43	3.13

RUN NUMBER	=	174.000
AXIAL POSITION IN PRIMARY WHT, SECONDARY (INCH)	=	0.000
PRIMARY TEMPERATURE (R)	=	576.000
SECONDARY TEMPERATURE (R)	=	534.000
PRIMARY PRESSURE RATIO	=	2.500
AREA RATIO	=	9.784
VELOCITY RATIO	=	.731
PRIMARY VELOCITY (FT/SEC)	=	1194.296
MASS FLOW RATIO	=	6.647
PRIMARY MASS FLOW (LB/SEC)	=	.335
THRUST (LBS)	=	73.192
ENVIRONMENTAL TEMPERATURE (IN)	=	526.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.000
ENVIRONMENTAL HUMIDITY (PER CENT)	=	48.000
CALIBRATION FACTOR (MV TO DY/50 CM)	=	.050
INSTRUMENTATION NOISE FLOOR (DB)	=	63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.40361E+00	134.0	THRUST	POWER LEVEL (DB)
500	2.19661E-01	123.4	10000	155.3
1000	5.39839E-01	127.3	20000	158.3
2000	6.56717E-01	128.2	40000	161.3
4000	4.89985E-01	126.9	80000	164.3
8000	3.27681E-01	125.2		
16000	1.64066E-01	122.2		
31500	8.58569E-02	119.3		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	163.3	165.3	161.4	95.7	89.6	84.5	83.4	108.7
20.0	162.9	166.2	163.3	97.4	91.3	87.1	84.9	109.5
25.0	161.7	166.0	164.5	99.6	94.1	89.0	86.3	109.8
30.0	160.2	164.4	164.8	101.6	95.2	91.3	88.0	109.3
35.0	158.0	162.4	163.7	101.6	97.8	92.6	89.1	109.5
40.0	156.4	160.5	163.0	102.2	99.2	94.6	90.5	108.1
45.0	153.6	158.6	161.3	101.0	99.4	95.5	91.6	107.0
50.0	152.3	159.9	160.1	99.9	94.8	95.5	92.2	105.9
55.0	150.6	158.0	159.4	99.3	94.1	95.3	91.8	105.3
60.0	148.1	156.5	157.5	97.4	92.0	94.8	92.1	103.9
65.0	146.0	154.6	155.7	97.3	90.3	93.8	91.7	103.4
70.0	144.8	152.7	155.0	96.1	89.5	93.3	91.1	102.4
75.0	142.9	150.3	153.5	95.7	88.9	92.9	90.5	102.0
80.0	141.7	148.5	151.7	95.2	88.7	92.5	90.0	101.4
85.0	140.8	146.8	150.7	94.3	88.6	91.6	89.5	100.6
90.0	139.3	145.1	149.1	93.9	88.5	91.1	88.9	100.1
95.0	138.3	143.8	147.7	93.2	88.4	90.6	88.3	99.6
100.0	137.4	142.2	146.5	92.8	88.6	90.1	87.7	99.2
105.0	136.2	140.8	145.0	91.9	88.3	89.6	87.1	98.7
110.0	134.4	138.4	143.7	92.0	88.7	89.0	86.4	98.3
115.0	133.7	138.0	143.0	91.7	88.4	88.4	85.9	97.9

MODEL THRUST = 73.192 FULL SCALE THRUST = 20000.000

L	PNDB	DASPL	OCTAVE BAND											
			30.2	60.5	121.0	242.0	484.0	967.9	1905.6	3811.2	7561.8	15123.7	30247.4	
5795.6	73.41	73.31	78.2	72.95	74.87	70.72	64.16	54.49	48.77	35.30	10.41	-33.53	-107.54	-226.53
4385.7	78.51	78.31	81.4	75.01	78.17	75.14	68.73	61.31	53.56	43.62	24.06	-9.93	-66.66	-152.90
3549.7	82.41	82.11	83.5	75.62	79.92	78.22	72.96	65.32	58.41	49.35	37.95	4.88	-41.61	-111.95
3000.0	84.41	84.61	84.4	75.59	79.75	79.41	74.56	70.15	62.06	54.25	37.92	15.73	-24.03	-83.97
2615.2	86.51	86.01	84.7	74.54	78.91	80.14	77.73	73.11	65.79	57.71	44.83	23.36	-11.65	-64.32
2333.6	88.31	87.51	85.2	73.93	78.03	80.49	79.33	75.63	69.19	60.97	48.16	29.47	-1.92	-49.21
2121.3	89.71	87.71	84.8	71.99	76.97	79.43	74.54	74.74	71.21	63.47	52.46	34.47	5.43	-37.78
1958.1	90.41	87.71	84.4	71.41	76.00	79.12	74.70	75.72	72.12	65.32	54.92	38.09	11.10	-29.07
1831.2	94.01	87.81	84.3	70.25	75.65	78.24	74.64	74.30	72.65	65.92	56.01	40.87	14.63	-23.12
1732.1	90.71	87.31	83.4	70.20	74.63	77.61	73.20	74.34	72.72	66.44	57.44	42.71	17.88	-17.89
1655.1	86.61	87.11	83.3	69.51	74.14	77.55	73.59	76.09	72.27	67.15	57.90	43.21	19.93	-14.48
1596.3	80.11	86.61	82.6	69.67	73.51	76.54	76.74	75.60	72.14	67.05	54.02	43.75	21.19	-12.11
1552.9	87.91	86.31	82.4	69.99	73.42	76.48	76.55	75.24	72.03	66.89	54.03	41.06	22.03	-10.44
1523.1	87.71	86.11	82.1	68.94	72.71	75.87	76.19	75.22	71.91	66.59	57.84	44.08	22.42	-9.49
1500.7	80.91	85.31	81.3	69.14	72.04	75.12	75.50	74.26	71.09	66.27	57.10	43.75	22.50	-9.08
1500.0	80.01	85.01	80.9	67.45	71.52	74.44	75.09	74.18	70.74	66.44	57.02	43.43	22.05	-9.42
1505.7	86.01	84.31	80.3	67.62	71.14	74.00	74.29	73.44	70.07	65.09	56.41	42.77	21.32	-10.76
1523.1	86.41	83.81	79.4	65.63	70.44	73.64	73.80	73.12	69.18	64.34	54.61	41.85	20.19	-11.72
1542.4	84.71	83.11	79.2	64.34	69.70	72.91	73.17	72.54	68.64	63.45	54.62	40.65	18.62	-13.85
1596.3	83.91	82.41	78.5	65.23	69.23	72.47	72.69	71.96	67.86	62.61	53.54	39.31	16.75	-16.44
1955.1	81.11	81.71	77.4	64.43	68.56	71.95	71.99	71.95	68.79	61.91	52.16	37.47	14.19	-20.42

RUN NUMBER	
AIRIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	130.000
PRIMARY TEMPERATURE (IN)	0.000
SECONDARY TEMPERATURE (IN)	527.000
PRIMARY PRESSURE RATIO	535.000
AREA RATIO	7.500
VELOCITY RATIO	0.700
PRIMARY VELOCITY (FT/SEC)	0.007
MASS FLOW RATIO	1195.430
PRIMARY MASS FLOW (LB/SEC)	0.305
THRUST (LBS)	0.333
ENVIRONMENTAL TEMPERATURE (IN)	102.307
ENVIRONMENTAL PRESSURE (IN.HG)	520.000
ENVIRONMENTAL HUMIDITY (PER CENT)	20.000
CALIBRATION FACTOR (MV TO DY/30 CH)	40.000
INSTRUMENTATION NOISE FLOOR (DB)	0.000
	40.507

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.06310E-01	140.3	THRUST	POWER LEVEL(DB)
500	7.89761E-01	129.0	10000	160.2
1000	2.26541E+00	133.6	20000	162.2
2000	2.51510E+00	135.0	40000	166.2
4000	2.10744E+00	133.4	80000	162.2
8000	1.56538E+00	131.9		
16000	8.77348E-01	129.4		
31500	4.30525E-01	128.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	109.1	111.6	102.5	112.9	96.0	91.6	88.1	116.5
20.0	108.9	112.7	110.0	107.4	95.8	93.4	89.3	118.8
25.0	106.9	112.4	110.4	104.7	100.2	95.5	92.2	115.9
30.0	106.4	111.1	110.3	100.3	102.2	97.7	94.0	115.4
35.0	104.0	109.0	110.2	107.5	104.3	100.1	96.2	114.9
40.0	101.9	109.0	108.9	107.2	105.0	101.0	96.8	112.9
45.0	99.0	104.3	107.2	104.7	105.4	101.9	98.3	112.0
50.0	98.9	102.3	105.9	104.1	102.4	102.0	98.9	112.1
55.0	95.0	100.5	104.6	105.3	105.0	102.4	99.0	111.3
60.0	94.7	100.0	103.2	105.0	103.9	101.9	99.0	110.3
65.0	94.1	98.9	102.3	103.5	103.5	101.3	98.1	109.6
70.0	93.6	98.1	101.6	102.0	102.0	100.5	97.9	109.9
75.0	93.0	97.4	100.7	101.8	101.6	100.1	97.2	109.1
80.0	92.1	97.1	100.1	101.3	101.4	99.8	97.2	107.7
85.0	92.3	96.0	99.6	101.0	101.4	99.3	97.2	107.4
90.0	91.7	95.9	99.3	100.4	100.5	98.9	96.8	106.8
95.0	91.0	95.7	98.6	99.9	100.3	98.6	96.0	106.5
100.0	90.3	94.7	97.9	99.9	99.7	98.3	95.1	105.7
105.0	90.0	94.1	97.6	99.7	99.5	97.8	94.9	105.5
110.0	89.1	93.7	97.3	99.5	99.3	97.4	94.2	105.1
115.0	88.9	93.1	96.7	99.0	99.4	97.4	94.7	104.9

MODEL THRUST = 102.307 FULL SCALE THRUST = 20000.000

L.	PNOS.	OASPL	35.0	OCTAVE 71.5	BAND 143.0	SOUND 286.1	PRESSURE 572.2	LEVELS 1144.3	2252.9	4505.9	8940.2	17880.4	35760.8
5795.6	80.41	84.41	80.1	77.27	79.66	70.30	79.47	60.63	50.50	34.65	5.86	-44.24	-126.04
6385.7	80.71	84.01	80.4	79.53	83.22	80.36	73.05	60.51	57.00	43.54	21.03	-17.62	-80.93
3540.3	87.71	87.51	84.1	79.31	84.97	82.04	76.38	70.49	62.25	51.34	32.55	-7.70	-51.12
3000.0	87.81	89.51	89.0	80.27	84.07	84.02	79.54	74.32	66.79	56.73	40.38	-22.64	-127.77
2015.2	92.01	91.01	89.5	79.07	84.05	83.17	82.06	77.79	71.02	61.53	46.49	13.00	-31.26
2333.6	92.91	92.01	89.4	77.70	82.06	84.09	82.07	79.65	73.39	64.16	50.78	20.41	-6.28
2121.3	93.51	92.01	89.0	75.91	81.10	84.01	83.19	81.03	75.48	67.25	54.82	34.57	-2.40
1950.1	94.01	93.11	88.8	74.55	79.92	83.32	81.32	81.43	76.91	69.14	57.46	30.55	0.62
1831.2	94.11	93.71	88.6	73.22	78.91	82.87	81.10	82.00	77.69	70.39	60.23	41.35	13.17
1732.1	93.91	92.01	88.0	73.43	78.70	81.81	82.15	81.49	77.02	71.23	60.53	43.45	10.63
1645.1	93.81	92.71	87.4	73.16	77.96	81.27	82.20	81.45	77.70	70.49	60.63	44.10	10.42
1566.3	93.61	92.41	87.4	72.43	77.44	81.19	81.43	81.07	77.37	71.36	61.20	45.29	20.34
1502.9	93.11	91.91	86.9	72.65	77.21	80.20	81.14	80.51	77.25	70.99	61.08	45.46	21.10
1423.1	93.01	91.71	86.6	71.90	76.93	79.78	80.76	80.29	77.19	71.27	61.49	46.11	22.10
1306.7	92.91	91.61	86.3	72.19	75.47	79.78	80.76	80.29	77.19	71.27	61.49	46.11	22.10
1200.0	92.71	90.91	85.9	71.64	75.77	79.18	80.12	79.56	76.48	70.33	60.65	45.46	21.03
1105.7	91.91	90.01	85.4	70.87	75.44	78.56	79.53	79.12	76.27	70.27	60.57	45.34	21.03
1023.1	91.01	89.71	84.5	70.04	74.51	77.56	79.00	79.00	75.66	69.76	59.46	44.08	20.13
947.9	90.71	89.31	84.1	69.47	73.71	77.33	79.03	79.20	76.47	69.73	59.42	43.70	19.44
876.3	89.81	88.61	83.5	68.93	73.06	76.40	77.62	77.68	74.22	67.97	57.06	41.49	18.96
808.1	89.71	88.11	82.0	67.94	72.12	75.93	77.63	77.69	74.29	67.22	57.19	40.74	18.96

MU# NUMBER	131.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	NONE
PRIMARY TEMPERATURE (R)	525.000
SECONDARY TEMPERATURE (R)	NONE
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	NONE
VELOCITY RATIO	NONE
PRIMARY VELOCITY (FT/SEC)	1380.300
MASS FLOW RATIO	NONE
PRIMARY MASS FLOW (LB/SEC)	6.23
THRUST (LBS)	18.147
ENVIRONMENTAL TEMPERATURE (R)	520.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	50.000
CALIBRATION FACTOR (INV TO DY/SQ CM)	100
INSTRUMENTATION NOISE FLOOR (DB)	49.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.10177E+01	140.4	THRUST	POWER LEVEL (DB)
500	1.55645E-02	111.9	10000	167.8
1000	1.45204E-01	121.6	20000	170.8
2000	9.90994E-01	130.0	40000	173.9
4000	3.08046E+00	134.9	50000	176.9
8000	4.11120E+00	136.1		
16000	1.93936E+00	132.9		
31500	7.34896E-01	129.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 16000	31500	OVER ALL
15.0	88.3	99.3	104.6	107.2	108.6	106.6	102.0	113.5
20.0	90.3	100.3	107.3	110.9	112.5	109.4	103.2	118.7
25.0	90.1	100.3	108.3	112.2	113.9	109.4	102.4	117.7
30.0	88.5	98.9	107.9	112.5	113.5	108.2	101.0	117.4
35.0	86.7	97.4	107.0	112.5	112.9	107.3	101.4	116.9
40.0	84.9	95.9	105.5	111.7	111.8	106.6	101.2	116.8
45.0	82.6	92.7	102.9	109.2	110.2	106.1	101.5	116.2
50.0	80.8	90.2	99.8	105.6	108.0	105.8	101.5	112.1
55.0	79.6	87.9	96.2	102.5	105.5	104.7	101.0	110.0
60.0	79.1	87.4	94.7	99.9	103.3	103.2	100.1	108.2
65.0	78.6	86.5	94.2	98.6	102.1	102.0	99.3	107.1
70.0	79.1	87.2	94.1	98.3	101.2	100.9	99.1	106.4
75.0	79.6	87.0	93.7	97.7	100.3	100.3	98.3	105.7
80.0	79.6	84.8	93.1	96.9	99.5	99.6	97.8	105.0
85.0	79.1	86.1	92.8	96.3	98.7	98.9	97.7	104.4
90.0	78.6	85.9	91.9	95.7	98.2	98.5	96.6	103.8
95.0	78.1	85.1	91.3	95.2	97.5	97.9	96.0	103.2
100.0	76.9	84.6	90.6	94.6	97.1	97.4	95.5	102.7
105.0	76.9	84.3	90.1	94.1	96.7	96.9	94.9	102.2
110.0	75.6	83.4	89.3	93.4	96.2	96.4	94.3	101.6
115.0	74.6	82.5	89.1	93.4	95.7	95.9	93.8	101.2

MODEL THRUST = 18.147 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE		BAND	SOUND	PRESSURE	LEVELS						
			12.1	30.1	90.2	120.5	241.0	482.0	940.0	1801.7	3205.3	7530.5	15001.1	
8795.6	90.71	49.81	84.0	64.04	74.96	80.20	82.59	83.33	79.53	70.51	57.11	32.46	-11.48	-45.29
4385.7	97.21	96.21	94.1	68.40	78.47	85.35	88.80	89.87	85.48	74.88	65.01	45.77	11.64	-44.94
3540.3	100.41	94.21	97.1	70.10	80.27	88.20	91.95	93.25	87.68	77.97	64.80	52.46	24.27	-22.09
3000.0	101.71	100.31	98.4	69.72	80.33	87.32	93.80	94.43	88.15	78.67	70.29	56.18	31.89	-7.76
2615.2	102.71	101.11	99.2	69.30	79.98	89.60	94.97	95.06	88.72	80.73	73.03	60.36	38.79	-2.84
2333.4	103.01	101.11	99.2	68.50	79.07	89.05	95.14	95.01	88.07	81.94	74.76	63.12	43.55	12.09
2121.3	102.71	100.51	98.3	67.08	77.11	87.14	93.54	94.30	86.53	83.29	76.40	65.63	47.57	18.65
1958.1	101.91	99.31	96.7	65.99	75.14	84.97	90.62	92.77	84.96	84.19	77.67	67.42	50.53	23.60
1831.2	101.01	98.01	95.2	65.10	73.58	83.95	88.13	90.38	82.52	84.46	78.20	68.62	52.42	27.65
1737.1	100.11	96.91	93.9	65.32	73.57	80.67	85.94	89.27	80.57	84.13	78.02	68.41	53.32	29.16
1655.1	99.01	96.21	93.2	65.21	73.14	80.77	85.16	88.48	87.17	83.87	77.90	68.77	54.02	30.80
1594.3	98.11	95.81	92.6	66.07	74.01	80.48	85.12	87.87	87.07	84.00	78.15	69.24	54.91	32.41
1552.9	99.01	95.41	92.4	66.73	74.12	80.81	84.81	87.20	86.70	83.55	77.76	69.81	54.49	31.82
1523.1	98.01	94.91	91.9	66.00	74.00	80.42	84.14	86.54	86.20	83.20	77.47	68.83	55.02	33.41
1505.7	99.21	94.41	91.4	66.53	73.52	80.17	84.44	86.41	85.64	82.73	77.53	68.95	55.27	33.97
1400.0	97.51	93.91	90.8	66.37	73.17	79.11	83.13	85.42	85.20	82.15	76.46	67.91	54.26	32.93
1369.7	96.91	93.21	90.2	65.51	72.55	78.75	82.52	84.49	84.61	81.55	75.85	67.27	53.59	32.19
1323.1	96.21	92.61	89.6	64.25	71.81	77.92	81.94	84.21	84.02	80.94	75.22	66.54	52.77	31.16
1242.9	95.41	91.91	88.9	64.08	71.44	77.20	81.16	83.33	83.33	80.11	74.33	65.58	51.55	29.59
1190.3	94.41	91.01	88.1	62.50	70.16	76.20	80.22	82.03	82.42	79.24	73.41	64.50	50.17	27.67
1155.1	93.71	90.21	87.3	61.53	69.00	74.11	78.49	80.41	81.70	78.31	72.48	63.21	48.68	25.25

RUN NUMBER	132.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (IN)	0.000
PRIMARY TEMPERATURE (IN)	520.000
SECONDARY TEMPERATURE (IN)	516.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	1.000
VELOCITY RATIO	0.352
PRIMARY VELOCITY (FT/SEC)	1373.715
MASS FLOW RATIO	0.383
PRIMARY MASS FLOW (LB/SEC)	1.425
THRUST (LBS)	70.578
ENVIRONMENTAL TEMPERATURE (IN)	520.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	50.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.089
INSTRUMENTATION NOISE FLOOR (DB)	68.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	9.33500E+00	139.7	THRUST 10000 166.6
500	2.37024E-02	113.7	20000 163.6
1000	4.51311E-01	126.5	40000 172.6
2000	1.00194E+00	130.0	80000 175.6
4000	2.52252E+00	134.0	
8000	3.14289E+00	135.0	
16000	1.55163E+00	131.9	
31500	5.49109E-01	128.1	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	SOUND PRESSURE LEVELS	4000	8000	16000	31500	OVER ALL
15.0	93.3	101.3	105.8	108.0	108.8	105.9	99.4	113.8		
22.5	92.3	111.9	107.7	111.0	112.2	104.0	79.9	117.6		
25.0	91.6	101.2	108.6	111.6	112.4	107.5	100.9	116.7		
30.0	90.3	100.6	108.1	111.8	111.9	106.4	100.6	115.4		
35.0	88.7	98.7	107.0	111.6	111.3	106.2	100.7	115.0		
40.0	86.3	99.2	105.3	110.1	110.2	105.9	101.1	114.7		
45.0	83.9	93.9	102.3	107.4	108.5	105.6	101.0	112.9		
50.0	82.3	91.2	99.2	105.5	107.2	105.5	101.4	111.5		
55.0	80.6	88.6	96.3	101.5	104.8	104.2	100.9	109.4		
60.0	80.6	87.3	94.2	99.5	102.8	102.7	100.4	107.8		
65.0	80.6	87.3	94.1	98.4	101.8	101.5	98.9	106.7		
70.0	80.2	87.7	93.6	97.5	100.5	100.4	98.3	105.8		
75.0	80.6	87.3	92.9	96.7	99.5	99.2	97.7	104.8		
80.0	80.2	87.1	92.6	96.5	98.7	98.5	97.0	104.2		
85.0	79.9	86.4	91.5	95.5	98.0	97.9	96.3	103.5		
90.0	79.0	85.5	91.4	95.1	97.3	97.0	95.5	102.8		
95.0	78.6	85.3	91.0	94.6	96.9	96.6	95.2	102.4		
100.0	78.1	85.1	90.6	94.3	96.6	96.1	94.7	102.0		
105.0	77.6	84.1	90.1	93.7	96.1	95.7	94.2	101.5		
110.0	77.1	83.8	89.3	93.1	95.5	95.0	93.6	100.9		
115.0	75.9	83.8	88.8	93.0	94.8	94.4	93.8	100.4		

MODEL THRUST = 20.578 FULL SCALE THRUST = 20000.000

L.	PND8.	OASPL	OCTAVE BAND	16.0	32.0	64.0	128.0	256.0	512.0	1024.0	2048.0	4096.0	8192.0	16384.0
5795.6	90.31	89.61	88.0	68.43	76.47	80.85	82.82	82.96	77.98	64.75	52.58	26.75	-10.61	-94.04
4385.7	96.91	96.11	94.7	69.87	80.48	85.21	88.30	89.04	83.33	71.56	60.11	39.83	5.99	-51.01
3549.3	94.71	97.61	95.6	71.03	80.64	87.98	90.79	91.16	85.07	73.47	62.63	48.65	19.87	-22.25
3000.0	100.01	98.81	96.4	71.17	81.43	88.98	92.44	92.29	85.69	76.80	68.02	53.21	27.74	-13.86
2615.2	101.11	99.61	97.6	70.80	80.78	88.04	93.51	92.94	86.95	79.27	71.23	57.93	35.38	-1.09
2333.6	101.41	99.61	97.4	69.34	79.31	88.35	93.08	92.85	87.71	80.49	73.50	61.30	40.83	8.44
2121.3	101.21	98.91	96.3	67.79	77.83	86.12	91.21	92.00	86.42	82.77	75.69	64.33	48.48	19.36
1954.1	101.01	98.31	95.5	67.15	78.83	87.18	91.82	91.42	89.12	83.69	76.92	66.21	48.54	20.36
1831.2	102.01	97.01	94.0	64.79	73.80	81.46	86.54	89.45	84.42	81.61	77.08	66.97	50.15	22.72
1732.1	99.31	96.01	92.9	66.24	72.97	79.80	85.64	88.10	82.45	81.68	77.34	67.52	51.56	27.44
1645.1	98.41	95.31	92.2	64.67	73.36	80.09	84.32	87.53	86.64	82.74	76.57	67.05	51.00	27.52
1564.7	98.11	94.71	91.6	66.62	74.03	79.44	83.81	86.57	85.94	82.64	76.47	67.14	52.23	28.46
1542.9	97.41	94.01	90.9	67.22	73.02	79.44	83.26	85.79	84.03	82.11	76.19	67.07	52.48	28.42
1423.1	97.11	93.51	90.5	67.02	73.91	79.33	83.18	85.20	84.46	81.64	75.75	66.78	52.34	28.98
1405.7	96.41	92.01	89.4	64.74	73.25	79.14	82.31	84.20	84.03	81.12	75.21	66.30	52.81	28.40
1300.0	95.81	92.21	89.3	65.92	72.46	78.30	81.47	83.13	83.12	80.04	74.77	65.40	51.83	28.64
1245.7	95.31	91.71	88.4	65.46	72.20	77.89	81.39	83.45	82.68	80.07	74.17	65.24	50.97	28.74
1231.1	94.71	91.11	88.3	64.89	71.44	77.39	80.46	81.08	82.07	79.37	73.43	64.43	50.83	28.40
1155.9	94.01	90.41	87.6	64.23	70.74	76.46	80.14	82.40	81.54	78.46	72.67	63.49	49.92	28.19
1046.3	93.11	89.41	86.7	63.44	69.94	75.46	79.17	81.00	80.53	77.47	71.90	62.41	47.84	28.27
1045.1	92.61	88.71	85.9	61.94	68.10	74.46	78.46	80.44	79.58	76.31	71.42	61.68	48.21	28.47

RJA NUMBER	134,000
AXIAL POSITION OF PRIMARY DNT, SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	270.000
SECONDARY TEMPERATURE (IN)	215.000
PRIMARY PRESSURE RATIO	3.000
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	1341.018
MASS FLOW RATIO	1.000
PRIMARY MASS FLOW (LBS/SEC)	4.000
THRUST (LBS)	28.301
ENVIRONMENTAL TEMPERATURE (IN)	519.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	54.000
CALIBRATION FACTOR (N.Y. TO N.Y.S. CH)	1.000
INSTRUMENTATION NOISE FLOOR (DB)	69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	1.33700E+01	141.2	10000	156.7
500	4.11884E-02	110.1	20000	159.7
1000	3.43592E-01	127.4	40000	172.7
2000	1.94401E-00	132.9	80000	175.7
4000	5.68764E-00	138.1		
8000	3.52375E-00	135.5		
16000	1.79770E-00	132.5		
31500	1.97709E-00	132.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	510	OCTAVE 1200	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.4	103.6	107.9	110.0	108.5	103.1	94.5	114.5
20.0	94.8	104.1	110.3	112.6	111.4	104.4	95.0	116.8
25.0	94.2	104.3	111.3	113.6	111.8	104.5	97.2	117.8
30.0	92.7	103.3	111.2	113.5	111.3	104.5	98.8	117.4
35.0	91.8	101.2	110.3	111.6	111.5	102.4	100.0	117.3
40.0	90.8	99.0	108.3	110.1	110.4	100.3	100.9	116.0
45.0	87.1	96.8	105.6	107.9	107.9	100.0	102.5	114.7
50.0	84.9	94.0	102.3	106.7	106.4	100.0	103.1	112.9
55.0	83.2	91.3	99.1	104.0	104.7	102.5	104.3	111.0
60.0	82.3	89.9	97.3	102.4	102.2	104.8	104.6	110.0
65.0	81.5	89.0	96.3	101.0	100.7	103.6	104.5	109.7
70.0	81.0	89.5	95.8	100.1	102.6	103.2	104.4	109.1
75.0	80.3	89.3	95.3	99.7	101.6	102.9	104.1	108.0
80.0	84.0	88.8	94.4	98.8	101.1	101.8	103.7	108.0
85.0	84.0	88.5	93.9	98.4	100.5	101.1	103.0	107.3
90.0	81.2	87.9	93.3	97.7	99.9	100.5	102.3	106.7
95.0	80.8	87.2	93.2	97.4	99.5	100.0	101.7	106.2
100.0	80.0	87.0	92.5	97.2	98.8	99.5	101.1	105.7
105.0	80.0	86.3	92.4	97.2	98.3	99.9	100.2	105.2
110.0	79.1	85.6	91.9	96.5	97.8	99.3	99.9	104.6
115.0	78.1	85.4	91.5	96.2	97.3	97.9	99.5	104.2

MODEL THRUST = 28.501 FULL SCALE THRUST = 20000.000

L	PUMP	QASPL	OCTAVE 31.5	BAND 75.0	SOUND 151.0	PRESSURE 302.0	LEVELS 604.0	1180.1	2378.7	4710.7	9437.4	18874.8
9795.6	86.61 88.33	87.5	69.19	77.32	81.55	83.34	80.87	72.96	58.48	49.11	12.3A	40.27 129.96
4395.2	91.71 93.11	92.2	71.00	80.23	80.56	84.44	89.58	76.86	64.69	51.50	28.33	12.24 277.77
3549.3	97.11 98.41	98.1	72.10	82.07	84.23	91.34	88.81	79.08	69.23	58.04	38.67	5.26 44.34
3000.0	98.91 99.91	98.3	72.17	82.41	84.60	92.10	90.67	81.97	73.01	63.89	46.25	17.52 28.22
2619.2	101.91 99.13	97.6	72.24	81.89	80.85	94.60	91.56	84.33	76.28	67.24	52.16	26.78 13.51
2333.6	102.21 92.41	97.2	70.47	80.65	82.88	93.57	91.21	83.44	76.04	70.28	56.49	33.50 22.27
2121.3	101.51 94.51	96.6	69.55	79.24	80.07	96.61	91.84	87.04	81.44	73.55	60.76	39.59 8.35
1956.1	101.21 90.67	92.4	69.00	77.14	85.41	89.74	94.14	87.05	82.94	79.43	63.39	43.62 12.78
1831.7	101.01 88.11	94.4	67.01	75.03	82.86	87.64	90.01	86.01	84.94	77.74	66.31	47.04 18.52
1752.1	100.61 87.52	94.6	66.55	74.18	81.51	89.54	89.03	87.80	80.98	76.99	68.00	50.18 22.46
1695.1	100.91 87.11	93.4	66.75	74.75	80.98	89.58	87.93	87.30	80.31	76.59	68.88	51.70 25.11
1696.3	101.11 97.11	92.2	66.55	74.41	80.28	91.22	87.23	87.09	80.72	80.62	67.66	52.98 27.22
1592.9	101.11 96.91	92.4	67.55	74.59	80.40	84.74	80.68	86.65	80.68	80.07	67.91	53.61 28.47
1523.1	100.71 96.51	92.1	66.32	74.18	77.72	84.65	80.06	86.18	80.53	79.59	67.98	53.91 29.20
1505.7	100.21 96.01	91.9	67.42	73.94	79.31	83.74	80.62	85.54	80.94	79.44	69.57	53.62 29.15
1500.6	95.01 95.41	91.4	66.73	73.41	79.81	83.65	85.04	85.07	85.24	78.67	68.90	53.89 28.66
1505.7	95.01 94.91	90.8	66.81	72.63	79.64	82.74	84.48	84.44	84.64	78.18	68.24	52.34 27.87
1473.1	95.31 94.11	92.2	66.39	74.32	77.88	84.62	80.83	83.81	80.71	77.39	67.82	51.32 28.88
1552.9	97.51 97.11	89.4	66.22	71.51	77.57	84.20	83.11	83.61	83.09	76.51	66.34	50.04 24.90
1596.3	97.51 97.51	89.7	64.65	70.58	76.81	81.35	84.34	82.19	82.13	75.45	65.69	48.41 22.66
1695.1	97.61 91.71	87.9	62.74	70.04	76.10	81.73	81.54	81.45	81.34	74.59	63.89	46.71 20.11

RJA NUMBER	135.00 (720.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (°C)	512.000
SECONDARY TEMPERATURE (°C)	507.000
PRIMARY PRESSURE RATIO	3.000
AREA RATIO	2.007
VELOCITY RATIO	0.350
PRIMARY VELOCITY (FT/SEC)	1369.747
MASS FLOW RATIO	0.679
PRIMARY MASS FLOW (LBS/SEC)	4.428
THRUST (LBS)	22.556
ENVIRONMENTAL TEMPERATURE (°C)	514.300
ENVIRONMENTAL PRESSURE (IN.HG)	28.100
ENVIRONMENTAL HUMIDITY (PER CENT)	64.000
CALIBRATION FACTOR (MV TO DY/SEC CM)	0.221
INSTRUMENTATION NOISE FLOOR (DB)	66.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	5.04874E+00	137.0	THRUST 22000 POWER LEVEL (DB) 163.5
500	2.04455E-02	113.1	20000 168.5
1000	1.41246E-01	121.3	40000 169.5
2000	7.15120E-01	124.5	80000 172.5
4000	1.44948E+00	131.6	
8000	1.54457E+00	131.9	
16000	7.09359E-01	128.9	
31500	4.08593E-01	126.1	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.4	99.9	106.0	109.8	107.4	104.4	93.4	112.7
20.0	92.2	100.6	106.7	108.9	109.3	103.7	95.3	114.0
25.0	91.9	100.6	107.1	109.8	109.5	103.0	95.9	114.3
30.0	89.6	98.7	106.5	109.3	108.3	101.9	95.8	113.6
35.0	87.1	96.7	105.3	108.8	107.7	101.8	96.4	112.9
40.0	85.3	94.5	103.2	107.0	106.5	104.2	97.6	111.5
45.0	83.3	92.5	100.2	104.3	105.0	102.1	98.0	109.7
50.0	81.6	89.8	97.3	101.7	103.5	101.8	98.6	108.2
55.0	81.6	87.8	94.6	97.1	101.9	101.2	99.4	106.9
60.0	81.2	87.1	93.5	97.3	100.1	99.8	99.0	105.9
65.0	79.6	84.6	92.9	98.4	98.9	98.7	98.6	104.7
70.0	79.9	86.3	92.1	99.8	98.1	98.1	96.9	103.7
75.0	81.2	88.6	91.5	98.9	97.1	97.8	97.7	103.4
80.0	79.6	85.7	91.1	94.4	96.4	96.9	95.6	102.4
85.0	79.0	85.3	90.3	93.7	96.0	97.4	96.2	102.4
90.0	78.6	85.1	90.0	93.2	95.0	95.8	94.6	101.3
95.0	77.8	84.2	89.4	92.7	95.6	96.4	95.1	101.6
100.0	77.4	84.0	88.6	92.1	93.9	94.8	93.5	100.2
105.0	77.0	82.6	88.2	91.7	94.4	92.3	94.0	100.4
110.0	76.1	83.1	87.8	91.6	93.0	93.7	92.5	99.3
115.0	76.1	81.9	87.6	90.8	93.3	94.2	93.0	98.4

MODEL THRUST = 22,556 FULL SCALE THRUST = 20000,000

L	PARD	DASPL	OCTAVE 16.8	BAND 33.0	SOUND 67.2	PRESSURE 134.1	LEVELS 268.7	537.3	1074.6	2149.2	4298.4	8596.8	17193.6
3795.6	81.31	87.53	86.5	67.21	74.64	80.67	81.14	80.99	75.91	61.82	47.07	20.18	-27.92
4395.7	92.81	92.12	92.2	67.41	72.77	83.75	85.85	82.67	78.38	66.19	54.29	33.22	-33.91
5649.3	95.41	94.41	92.7	69.94	79.58	86.07	86.54	87.82	80.01	59.63	50.64	42.01	-11.39
7090.0	96.21	95.33	91.8	70.38	79.22	88.99	88.85	88.25	80.78	71.92	62.84	47.47	-21.18
8619.2	97.21	95.41	94.2	68.81	78.43	86.93	86.31	86.90	82.00	74.37	66.01	52.24	-8.58
10314.6	97.51	95.91	93.7	68.00	77.21	88.79	89.51	88.75	84.53	76.95	67.22	56.60	-3.44
12121.3	97.51	95.31	92.7	68.78	75.98	83.68	87.71	86.13	84.41	78.42	71.19	59.38	39.87
14061.1	97.21	94.61	91.8	69.64	73.97	81.44	85.74	87.34	84.88	79.98	73.01	61.04	43.70
16131.2	97.11	94.01	91.0	69.61	72.67	79.33	83.75	86.27	84.91	81.50	74.70	64.24	46.99
17321.1	96.61	93.31	91.1	69.51	72.37	79.72	82.55	85.05	84.05	81.73	75.22	69.00	48.60
18651.1	96.41	92.71	89.7	69.29	72.27	78.56	81.91	84.27	83.39	81.68	75.52	69.70	49.82
20061.3	95.71	92.31	89.1	69.32	72.23	79.09	81.63	83.22	84.21	80.54	74.30	64.22	49.30
21521.9	96.71	92.71	89.0	69.46	72.19	77.68	81.64	83.04	83.00	81.69	75.54	60.14	51.00
23031.1	95.84	91.41	88.2	69.04	72.04	77.14	80.72	82.40	82.45	79.77	73.68	64.41	49.59
24591.7	95.41	91.71	88.1	69.44	71.75	76.81	80.12	82.21	83.04	80.48	74.49	69.22	50.50
26201.0	94.01	90.41	87.2	69.12	71.63	76.49	79.64	81.23	81.47	78.94	72.89	63.71	49.04
27861.7	94.41	90.81	87.5	69.33	70.69	75.88	79.14	81.70	82.05	79.34	73.31	64.11	49.39
29581.1	92.71	89.21	85.5	68.61	70.31	75.98	78.32	79.99	82.35	77.64	71.55	62.27	47.42
31321.9	92.91	89.31	85.0	68.23	68.83	74.30	77.64	80.27	80.63	77.98	71.81	64.41	47.33
33091.1	91.21	87.71	84.9	67.54	67.72	73.72	77.43	78.66	78.61	76.25	69.96	63.38	44.90
34891.1	91.11	87.61	84.4	67.77	67.52	73.25	76.36	78.68	78.93	76.27	69.92	60.10	44.24

WJA NUMBER	136.00 (800.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	516.000
SECONDARY TEMPERATURE (IN)	516.000
PRIMARY PRESSURE RATIO	3.900
AREA RATIO	2.007
VELOCITY RATIO	0.673
PRIMARY VELOCITY (FT/SEC)	1368.421
MASS FLOW RATIO	1.310
PRIMARY MASS FLOW (LBM/SEC)	4.23
THRUST (LBS)	33.066
ENVIRONMENTAL TEMPERATURE (IN)	514.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	64.000
CALIBRATION FACTOR (MV TO VV/SH CM)	112
INSTRUMENTATION NOISE FLOOR (DB)	70.964

SIG POWER AND SOUND POWER LEVEL FOR MODEL J-1

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	2.06448E+01	143.2	THRUST 10000 POWER LEVEL (DB) 167.2
500	7.85630E-02	119.0	20000 173.9
1000	6.24817E-01	128.0	40000 173.2
2000	3.30466E+00	135.2	80000 176.0
4000	5.11733E-01	147.1	
8000	4.78241E+00	136.8	
16000	3.16435E-01	132.0	
31500	3.98767E+00	137.5	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1120	BAND 2090	SOUND 4000	PRESSURE 8100	LEVELS 16000	31500	OVER ALL
15.0	97.9	105.7	109.3	108.3	105.6	112.4	96.8	114.1
20.0	97.8	105.9	112.0	112.1	109.5	114.8	100.2	117.0
25.0	96.5	102.4	112.8	113.1	112.9	108.0	101.0	117.9
30.0	95.4	113.3	113.2	113.8	111.6	110.6	103.0	118.4
35.0	95.7	112.5	112.6	114.4	112.4	117.6	104.5	118.7
40.0	91.4	101.5	110.0	113.9	112.5	110.3	105.7	118.2
45.0	86.8	93.1	108.4	111.9	112.1	118.7	106.8	117.1
50.0	80.8	93.9	105.1	108.9	110.6	108.7	108.0	115.7
55.0	82.4	94.3	102.2	106.1	108.7	108.0	108.0	114.2
60.0	85.4	93.9	100.7	104.2	107.0	107.2	108.2	113.2
65.0	82.3	94.9	100.3	103.0	105.8	106.3	107.3	112.2
70.0	85.6	94.5	99.6	102.2	104.7	105.8	107.2	111.7
75.0	80.6	94.8	99.1	111.2	104.4	104.9	106.4	110.8
80.0	82.9	94.3	98.6	100.7	102.8	104.1	106.1	110.3
85.0	82.4	93.3	97.7	100.2	102.2	103.5	105.8	109.8
90.0	82.1	92.4	97.1	97.7	101.2	102.4	105.7	109.2
95.0	84.8	92.3	96.9	97.4	101.7	102.9	104.9	109.1
100.0	84.2	90.9	96.1	98.9	100.5	101.6	104.8	108.4
105.0	84.3	91.1	95.7	98.1	101.9	102.0	105.4	108.7
110.0	84.2	89.3	95.4	97.6	99.8	101.0	104.6	107.9
115.0	81.0	88.4	94.7	97.2	100.1	101.3	104.3	107.8

MODEL THRUST = 33,866 FULL SCALE THRUST = 20000.000

L	PMH	QASPL	20.6	OCTAVE 41.1	BAND 82.3	SOUND 164.6	PRESSURE 329.2	LEVELS 658.4	1296.2	2592.4	5143.7	10287.4	20574.0
95.6	81.71 (86.3)	85.4	73.91	78.44	82.17	80.80	77.05	71.03	58.84	41.16	9.16	-47.54	-137.43
95.2	82.11 (82.5)	91.1	73.21	81.41	87.35	87.15	83.71	76.92	67.40	53.29	28.34	-14.01	-44.34
49.3	97.01 (94.1)	94.5	73.76	83.66	89.93	90.34	87.19	80.61	72.14	60.15	39.39	3.61	-52.71
08.0	98.51 (93.4)	85.5	74.13	84.59	91.82	92.22	89.55	83.11	76.08	62.48	47.47	6.94	-51.30
15.2	101.6 (101.3)	99.1	73.59	83.47	92.48	94.14	91.57	85.99	79.49	69.86	53.74	26.77	-19.54
23.6	102.9 (121.3)	92.5	72.28	82.38	91.67	94.51	92.83	87.43	82.19	73.23	58.68	34.18	-4.00
21.3	103.6 (121.6)	91.7	73.53	80.79	90.04	93.43	93.23	88.86	84.54	76.14	62.54	40.08	9.00
28.1	102.5 (110.1)	87.2	69.24	78.33	87.53	91.15	92.55	89.65	86.76	78.80	66.00	45.03	12.50
31.2	101.9 (100.1)	94.1	68.37	77.28	85.16	88.92	91.24	89.64	87.58	79.94	67.78	47.97	17.36
32.1	103.1 (120.0)	95.2	68.85	77.36	84.18	87.56	89.98	89.43	88.48	81.09	69.42	50.53	21.41
55.1	102.4 (93.6)	95.0	70.24	78.83	84.14	86.74	89.09	88.90	88.12	80.92	69.64	51.45	23.49
96.3	101.9 (120.6)	94.3	70.77	80.87	81.73	80.25	88.51	86.81	88.43	81.36	70.37	52.72	29.65
22.9	102.4 (93.3)	84.2	71.51	79.22	83.56	85.55	87.44	86.19	87.97	80.14	70.19	52.94	26.52
23.1	102.3 (91.3)	81.0	70.44	78.59	83.14	85.13	86.99	87.56	87.88	81.22	70.40	53.42	27.45
55.7	102.7 (94.4)	91.5	70.07	76.93	82.34	84.91	86.53	87.14	87.64	80.83	70.29	53.47	27.77
10.0	103.7 (94.1)	90.7	69.84	77.13	81.72	84.32	85.52	86.01	87.02	82.82	70.36	53.53	27.91
25.7	101.7 (97.7)	87.7	69.51	76.71	81.59	84.61	86.01	86.43	86.04	79.09	69.44	52.63	26.93
23.1	102.1 (121.2)	81.0	69.51	75.51	81.71	83.32	84.71	85.39	86.53	79.67	69.23	52.87	26.11
22.9	102.7 (97.1)	81.4	67.77	74.57	81.17	82.57	84.91	87.26	86.51	79.14	69.19	51.94	25.39
40.3	101.7 (92.2)	81.0	65.41	73.49	76.51	81.84	83.54	84.74	85.44	78.07	67.81	53.18	25.17
95.1	101.0 (93.4)	81.4	64.37	72.34	75.51	81.44	83.54	83.93	85.13	77.93	68.64	48.48	25.12

NO. NUMBER	# 137,000
AZIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	# 0.000
PRIMARY TEMPERATURE (°R)	# 920,000
SECONDARY TEMPERATURE (°R)	# 920,000
PRIMARY PRESSURE (PSI)	# 3,500
AIR RATIO	# 2.087
VELOCITY (FT/SEC)	# 744
PRIMARY VELOCITY (FT/SEC)	# 1373.715
MASS FLOW RATIO	# 1.427
PRIMARY MASS FLOW (LBS/SEC)	# 1.427
THRUST (LBS)	# 38,190
ENVIRONMENTAL TEMPERATURE (°R)	# 915,000
ENVIRONMENTAL PRESSURE (IN. HG)	# 29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	# 54.000
CALIBRATION FACTOR (40 TO 100/54.54)	# 126
INSTRUMENTATION NOISE FLOOR (DB)	# 71,987

TIC POWER AND SOUND POWER LEVEL FOR NOVEL JET

REQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	2.92246E+01	144.7	THRUST 10000 POWER LEVEL (DB) 168.8
900	1.28175E+01	121.1	20000 171.8
1800	1.11128E+00	132.5	40000 174.9
2000	4.21596E+00	136.2	80000 177.9
4000	7.23037E+00	138.8	
8000	6.38044E+00	138.0	
16000	2.00612E+00	137.0	
31500	4.85227E+00	138.9	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.8	107.5	110.8	111.1	108.0	103.4	97.9	116.8
20.0	98.9	107.6	112.5	113.3	110.1	105.1	100.3	117.8
25.0	97.1	107.6	113.5	114.1	111.3	106.2	102.7	118.7
30.0	96.8	106.8	114.1	114.9	112.1	107.1	104.0	119.3
35.0	92.1	105.5	113.3	115.2	112.5	108.1	105.8	119.3
40.0	93.0	103.6	111.6	114.3	112.8	109.2	107.8	118.9
45.0	91.4	101.1	108.8	112.7	112.4	109.9	108.7	117.9
50.0	90.0	99.4	105.7	110.1	111.2	110.0	109.7	116.8
55.0	89.3	98.5	103.3	107.9	109.8	109.9	110.6	116.0
60.0	89.3	97.9	102.4	106.8	108.1	108.7	110.0	114.9
65.0	89.4	97.9	101.9	106.0	107.3	108.4	108.4	114.3
70.0	89.1	97.5	101.6	105.5	106.6	107.7	108.8	113.7
75.0	89.1	97.6	101.0	105.3	106.0	107.0	107.2	113.1
80.0	89.3	97.6	100.9	105.2	105.8	106.4	106.7	112.6
85.0	88.7	97.5	100.8	105.0	105.7	106.2	106.0	112.3
90.0	88.7	97.5	100.6	105.3	105.5	106.2	106.1	112.3
95.0	88.2	97.2	100.4	104.8	105.2	106.2	106.5	111.9
100.0	88.0	97.0	100.0	105.0	105.2	106.0	106.9	112.8
105.0	88.0	96.8	100.0	104.4	105.0	105.9	106.5	111.7
110.0	88.0	97.3	99.9	104.6	104.8	105.4	104.8	111.4
115.0	87.0	96.9	99.7	104.4	104.8	105.2	104.8	111.3

NOVEL THRUST = 38,190 FULL SCALE THRUST = 20000,000

ANGLE (DEG)	PADR.	QASPL	OCTAVE 21.9	BAND 40.7	SOUND 87.4	PRESSURE 174.8	LEVELS 349.6	599.2	1376.6	2753.2	5462.8	10925.5	21851.1
5.0	88.71 (88.4)	87.8	71.28	79.95	82.06	83.01	78.70	71.14	58.58	39.92	6.26	-92.51	-146.38
10.0	88.81 (93.3)	92.1	73.72	82.43	82.28	87.78	83.74	78.33	66.31	51.66	29.26	-19.91	-91.89
15.0	97.21 (96.4)	94.9	73.81	84.28	90.15	90.49	86.99	80.05	72.24	59.65	37.87	7.74	-57.88
20.0	88.91 (97.8)	97.0	74.90	85.31	92.26	92.78	89.37	82.88	76.02	64.92	46.08	16.23	-33.72
25.0	101.81 (100.5)	98.7	74.49	84.09	94.61	94.31	91.12	85.36	79.88	69.81	52.08	24.81	-10.18
30.0	103.31 (101.2)	98.6	71.42	84.96	91.89	94.52	92.45	87.22	81.22	73.86	58.81	33.18	-26.68
35.0	104.11 (102.1)	94.3	72.64	82.27	90.00	93.71	93.00	89.39	85.61	78.87	62.65	39.94	-3.81
40.0	104.21 (101.8)	97.6	71.92	81.22	87.56	91.79	92.58	88.16	87.59	78.38	65.94	44.18	10.42
45.0	104.71 (102.7)	97.2	71.75	81.00	85.70	90.23	91.71	88.91	89.34	81.43	68.74	48.12	18.44
50.0	104.81 (101.5)	92.7	72.24	80.84	85.35	88.56	90.60	88.23	89.47	81.79	69.63	49.98	19.83
55.0	104.81 (101.7)	96.5	72.82	81.23	85.18	89.22	90.21	88.42	89.36	81.88	70.13	51.21	22.28
60.0	104.31 (101.5)	92.1	72.24	81.17	85.23	89.67	90.74	90.08	89.25	81.93	70.48	52.13	24.12
65.0	103.91 (101.0)	94.7	73.19	81.45	84.01	89.11	89.50	89.69	88.43	81.74	70.07	52.80	24.75
70.0	103.41 (100.5)	95.2	73.34	81.73	84.76	89.18	89.43	89.24	87.74	80.62	69.56	51.91	22.05
75.0	103.11 (100.2)	95.6	72.67	82.05	84.94	89.25	89.43	89.16	87.17	80.14	69.13	51.84	20.05
80.0	103.31 (100.3)	95.7	72.94	82.31	84.82	89.14	89.20	89.24	87.30	80.25	69.31	51.88	20.38
85.0	103.41 (100.3)	95.2	73.37	81.11	84.72	89.14	89.43	89.44	87.44	80.65	69.58	51.12	24.53
90.0	103.81 (100.7)	95.2	72.77	81.12	84.14	88.25	88.85	88.86	85.94	77.82	68.76	51.11	24.25
95.0	103.21 (100.3)	94.7	71.97	80.78	83.93	88.17	88.44	88.55	86.28	79.09	67.87	49.53	22.60
100.0	103.11 (100.2)	94.2	71.73	81.01	83.51	88.11	88.03	87.79	85.34	77.77	66.32	47.98	19.90
105.0	102.71 (98.5)	93.7	70.97	80.29	83.34	87.68	87.70	87.22	84.59	77.12	65.37	46.44	17.91

WUA NUMBER	138,000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (K)	522,030
SECONDARY TEMPERATURE (K)	522,030
PRIMARY PRESSURE RATIO	3.570
AREA RATIO	4.876
VELOCITY RATIO	1.354
PRIMARY VELOCITY (FT/SEC)	1376.354
MASS FLOW RATIO	1.405
PRIMARY MASS FLOW (LB/SEC)	1.427
THRUST (LBS)	27,304
ENVIRONMENTAL TEMPERATURE (K)	515,000
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	54.000
CALIBRATION FACTOR (MV TO DY/SEC CM)	0.04
INSTRUMENTATION NOISE FLOOR (DB)	65.546

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.08161E+00	130.1	THRUST	POWER LEVEL (DB)
			10000	101.2
500	2.90932E-02	114.6	20000	104.8
1000	1.25434E-01	122.4	40000	102.8
2000	6.97112E-01	126.4	80000	170.8
4000	1.26947E+00	131.1		
8000	1.17729E+00	130.7		
16000	4.97679E-01	127.3		
31500	2.35340E-01	123.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4020	PRESSURE 8000	LEVELS 16000	31500	OVERALL
15.0	94.1	102.8	104.0	105.0	104.0	100.0	92.5	110.8
20.0	93.9	102.1	106.0	108.3	107.3	100.1	93.4	113.0
25.0	93.2	101.3	106.5	108.0	107.0	100.3	93.5	112.7
30.0	91.3	99.8	106.9	108.7	107.2	100.3	93.7	113.0
35.0	89.4	98.1	105.4	108.3	107.0	100.2	94.4	112.4
40.0	88.9	97.3	103.1	106.0	106.0	100.8	95.4	111.1
45.0	88.8	96.1	102.3	104.4	104.2	100.8	95.2	109.3
50.0	83.2	90.7	97.2	101.0	100.2	100.9	96.0	107.7
55.0	81.0	88.5	95.3	99.4	100.2	100.4	97.2	106.2
60.0	80.9	86.9	93.0	97.3	99.0	96.0	96.4	104.7
65.0	80.6	87.0	92.9	96.0	93.2	97.0	96.1	103.0
70.0	80.1	86.0	92.1	95.2	97.1	96.0	95.7	102.0
75.0	80.1	86.3	91.4	94.4	96.2	97.3	94.0	101.8
80.0	79.7	85.6	90.7	93.8	95.2	94.0	93.7	101.0
85.0	79.2	85.2	90.0	92.0	94.3	94.0	93.0	100.2
90.0	78.9	84.3	89.7	92.6	93.4	93.5	92.5	99.8
95.0	78.3	83.0	89.4	92.0	93.4	93.1	91.9	99.3
100.0	77.9	83.4	88.0	91.4	93.0	92.8	91.4	98.8
105.0	77.0	82.7	87.7	91.3	92.7	92.7	90.2	98.5
110.0	76.4	82.5	87.0	90.4	92.4	91.9	90.0	97.0
115.0	76.1	82.1	86.2	89.5	91.5	91.0	89.5	97.2

MODEL THRUST = 27,304 PULL SCALE THRUST = 24090.000

ANGLE	500	OCTAVE 1000	BAND 2000	SOUND 4020	PRESSURE 8000	LEVELS 16000	31500	OVERALL
15.0	94.1	102.8	104.0	105.0	104.0	100.0	92.5	110.8
20.0	93.9	102.1	106.0	108.3	107.3	100.1	93.4	113.0
25.0	93.2	101.3	106.5	108.0	107.0	100.3	93.5	112.7
30.0	91.3	99.8	106.9	108.7	107.2	100.3	93.7	113.0
35.0	89.4	98.1	105.4	108.3	107.0	100.2	94.4	112.4
40.0	88.9	97.3	103.1	106.0	106.0	100.8	95.4	111.1
45.0	88.8	96.1	102.3	104.4	104.2	100.8	95.2	109.3
50.0	83.2	90.7	97.2	101.0	100.2	100.9	96.0	107.7
55.0	81.0	88.5	95.3	99.4	100.2	100.4	97.2	106.2
60.0	80.9	86.9	93.0	97.3	99.0	96.0	96.4	104.7
65.0	80.6	87.0	92.9	96.0	93.2	97.0	96.1	103.0
70.0	80.1	86.0	92.1	95.2	97.1	96.0	95.7	102.0
75.0	80.1	86.3	91.4	94.4	96.2	97.3	94.0	101.8
80.0	79.7	85.6	90.7	93.8	95.2	94.0	93.7	101.0
85.0	79.2	85.2	90.0	92.0	94.3	94.0	93.0	100.2
90.0	78.9	84.3	89.7	92.6	93.4	93.5	92.5	99.8
95.0	78.3	83.0	89.4	92.0	93.4	93.1	91.9	99.3
100.0	77.9	83.4	88.0	91.4	93.0	92.8	91.4	98.8
105.0	77.0	82.7	87.7	91.3	92.7	92.7	90.2	98.5
110.0	76.4	82.5	87.0	90.4	92.4	91.9	90.0	97.0
115.0	76.1	82.1	86.2	89.5	91.5	91.0	89.5	97.2

NO. NUMBER	139,000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	522,000
SECONDARY TEMPERATURE (IN)	522,000
PRIMARY PRESSURE (ATM)	3,500
AREA RATIO	4,040
VELOCITY RATIO	0.673
PRIMARY VELOCITY (FT/SEC)	1376,394
MASS FLOW RATIO	2,944
PRIMARY MASS FLOW (LBS/SEC)	425
THRUST (LBS)	34,424
ENVIRONMENTAL TEMPERATURE (IN)	515,000
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	49,000
CALIBRATION FACTOR (IN. TO OUNZ/IN. CH)	0.272
INSTRUMENTATION NOISE FLOOR (DB)	67,587

IF POWER AND SOUND POWER LEVEL FOR MODEL JET

EQUANCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
VERALL	0.42863E+00	139.3	THRUST	POWER LEVEL (DB)
			12200	121.0
500	1.42001E-01	122.0	28800	124.0
1000	1.19135E-01	120.8	48000	127.0
2000	2.16492E-01	133.4	68000	130.0
4000	1.83231E-01	132.4		
8000	1.35494E-01	131.3		
16000	7.07650E-01	128.3		
31500	9.00468E-01	129.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	300	OCTAVE BAND 3000	BAND 2000	SOUND PRESSURE LEVELS 2000	LEVELS 3500	OVERALL	
15.0	122.0	131.3	128.0	125.0	99.0	91.0	114.2
20.0	124.2	129.3	126.3	124.1	107.0	94.9	114.9
25.0	121.5	131.0	121.0	127.0	101.0	93.0	113.2
30.0	120.0	127.3	121.7	124.0	102.0	97.7	114.9
35.0	120.0	128.0	120.1	128.2	103.0	97.0	114.0
40.0	120.0	123.0	120.4	129.4	103.0	99.0	113.2
45.0	121.3	120.0	125.0	128.2	103.2	97.0	111.0
50.0	121.5	127.3	123.1	124.0	104.0	95.0	110.0
55.0	121.2	121.2	121.2	123.4	103.0	101.0	109.7
60.0	121.2	121.2	121.2	121.7	102.0	101.0	109.7
65.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
70.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
75.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
80.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
85.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
90.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
95.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
100.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
105.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
110.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
115.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0
120.0	121.2	121.2	121.2	121.0	101.0	101.0	109.0

MODEL THRUST = 34,424 TOTAL SCALE THRUST = 25000,000

ANGLE	300	OCTAVE BAND 3000	BAND 2000	SOUND PRESSURE LEVELS 2000	3500	OVERALL							
	20.1	22.2	100.3	70.1	61.3	226.0	1003.7	3700.0	0120.4	1101.3	20007.0		
0.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
1.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
2.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
3.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
4.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
5.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
6.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
7.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
8.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
9.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
10.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
11.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
12.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
13.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
14.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
15.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
16.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
17.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
18.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
19.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
20.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
21.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
22.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
23.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
24.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
25.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
26.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
27.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
28.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
29.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70
30.0	87.21	87.11	87.3	73.90	67.90	50.73	79.17	40.47	61.30	47.97	24.11	107.05	103.70

RAIL NUMBER	140,000
AXIAL POSITION OF CALIBRY WHT, SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	522.000
SECONDARY TEMPERATURE (IN)	525.000
PRIMARY PRESSURE (PSI)	3.500
AXIAL POSITION	0.000
VELOCITY (FT/SEC)	1376.394
PRIMARY VELOCITY (FT/SEC)	1376.394
MASS FLOW (G/SEC)	1.423
THURST (LBS)	83.419
ENVIRONMENTAL TEMPERATURE (IN)	515.000
ENVIRONMENTAL PRESSURE (LBS/IN ²)	20.483
ENVIRONMENTAL HUMIDITY (PER CENT)	40.000
CALIBRATION FACTOR (IN TO IN/IN)	1.000
INSTRUMENTATION NOISE FLOOR (IN)	00.007

Reproduced from
best available copy.

IF POWER AND SOUND POWER LEVEL FROM MODEL 107

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
VERALL	1.25000E-01	141.0	THRUST 10000 MODEL LEVEL (DB) 101.1
900	2.01200E-01	129.9	20000 100.0
1000	2.27000E-01	131.4	40000 100.0
2000	2.07000E-01	129.2	80000 97.0
4000	2.23000E-01	131.3	
8000	1.45000E-01	127.8	
16000	2.22000E-01	131.0	
31500	1.34000E-01	127.0	

EXPERIMENTAL DATA

TABLE 1-1-1: OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

NOISE	300	500	1000	2000	4000	8000	16000	31500	OVERALL
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0
102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0
105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0
108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0
112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0
117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0
118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
119.0	119.0	119.0	119.0	119.0	119.0	119.0	119.0	119.0	119.0
120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0

Model 100-100 = 100.000 *Scale Factor = 1000.000

NOISE	300	500	1000	2000	4000	8000	16000	31500	OVERALL
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0
102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0
105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0
108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0
112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0
117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0
118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
119.0	119.0	119.0	119.0	119.0	119.0	119.0	119.0	119.0	119.0
120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0

~~THE STATE AND COUNTY OF ILLINOIS DEPT. OF CORRECTIONS~~

~~REF ID: A66666~~

● 2019 年 1 月 1 日起, 企业发生的符合条件的广告费和业务宣传费支出, 不超过当年销售(营业)收入 15% 的部分, 准予扣除; 超过部分, 准予在以后纳税年度结转扣除。

	22.4	27.4	32.4	37.4	42.4	47.4	52.4	57.4	62.4	67.4	72.4	77.4	82.4	87.4	92.4	97.4	102.4	107.4	112.4	117.4	122.4	127.4	132.4	137.4	142.4	147.4	152.4	157.4	162.4	167.4	172.4	177.4	182.4	187.4	192.4	197.4	202.4	207.4	212.4	217.4	222.4	227.4	232.4	237.4	242.4	247.4	252.4	257.4	262.4	267.4	272.4	277.4	282.4	287.4	292.4	297.4	302.4	307.4	312.4	317.4	322.4	327.4	332.4	337.4	342.4	347.4	352.4	357.4	362.4	367.4	372.4	377.4	382.4	387.4	392.4	397.4	402.4	407.4	412.4	417.4	422.4	427.4	432.4	437.4	442.4	447.4	452.4	457.4	462.4	467.4	472.4	477.4	482.4	487.4	492.4	497.4	502.4	507.4	512.4	517.4	522.4	527.4	532.4	537.4	542.4	547.4	552.4	557.4	562.4	567.4	572.4	577.4	582.4	587.4	592.4	597.4	602.4	607.4	612.4	617.4	622.4	627.4	632.4	637.4	642.4	647.4	652.4	657.4	662.4	667.4	672.4	677.4	682.4	687.4	692.4	697.4	702.4	707.4	712.4	717.4	722.4	727.4	732.4	737.4	742.4	747.4	752.4	757.4	762.4	767.4	772.4	777.4	782.4	787.4	792.4	797.4	802.4	807.4	812.4	817.4	822.4	827.4	832.4	837.4	842.4	847.4	852.4	857.4	862.4	867.4	872.4	877.4	882.4	887.4	892.4	897.4	902.4	907.4	912.4	917.4	922.4	927.4	932.4	937.4	942.4	947.4	952.4	957.4	962.4	967.4	972.4	977.4	982.4	987.4	992.4	997.4	1002.4	1007.4	1012.4	1017.4	1022.4	1027.4	1032.4	1037.4	1042.4	1047.4	1052.4	1057.4	1062.4	1067.4	1072.4	1077.4	1082.4	1087.4	1092.4	1097.4	1102.4	1107.4	1112.4	1117.4	1122.4	1127.4	1132.4	1137.4	1142.4	1147.4	1152.4	1157.4	1162.4	1167.4	1172.4	1177.4	1182.4	1187.4	1192.4	1197.4	1202.4	1207.4	1212.4	1217.4	1222.4	1227.4	1232.4	1237.4	1242.4	1247.4	1252.4	1257.4	1262.4	1267.4	1272.4	1277.4	1282.4	1287.4	1292.4	1297.4	1302.4	1307.4	1312.4	1317.4	1322.4	1327.4	1332.4	1337.4	1342.4	1347.4	1352.4	1357.4	1362.4	1367.4	1372.4	1377.4	1382.4	1387.4	1392.4	1397.4	1402.4	1407.4	1412.4	1417.4	1422.4	1427.4	1432.4	1437.4	1442.4	1447.4	1452.4	1457.4	1462.4	1467.4	1472.4	1477.4	1482.4	1487.4	1492.4	1497.4	1502.4	1507.4	1512.4	1517.4	1522.4	1527.4	1532.4	1537.4	1542.4	1547.4	1552.4	1557.4	1562.4	1567.4	1572.4	1577.4	1582.4	1587.4	1592.4	1597.4	1602.4	1607.4	1612.4	1617.4	1622.4	1627.4	1632.4	1637.4	1642.4	1647.4	1652.4	1657.4	1662.4	1667.4	1672.4	1677.4	1682.4	1687.4	1692.4	1697.4	1702.4	1707.4	1712.4	1717.4	1722.4	1727.4	1732.4	1737.4	1742.4	1747.4	1752.4	1757.4	1762.4	1767.4	1772.4	1777.4	1782.4	1787.4	1792.4	1797.4	1802.4	1807.4	1812.4	1817.4	1822.4	1827.4	1832.4	1837.4	1842.4	1847.4	1852.4	1857.4	1862.4	1867.4	1872.4	1877.4	1882.4	1887.4	1892.4	1897.4	1902.4	1907.4	1912.4	1917.4	1922.4	1927.4	1932.4	1937.4	1942.4	1947.4	1952.4	1957.4	1962.4	1967.4	
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--

~~WIRE POWER AND SOUND POWER LEVEL FOR HOTEL JET~~

FOURTH QUARTER 1964 AND GENERAL HOUSEHOLD EXPENDITURE LEVEL, 1964-1965

A-40

RUN NUMBER	149,000
AXIAL POSITION OF PRIMARY WHT, SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	910.000
SECONDARY TEMPERATURE (IN)	930.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	1370.404
MASS FLOW RATIO	1.000
PRIMARY MASS FLOW (LBS/SEC)	1.000
THRUST (LBS)	7.996
ENVIRONMENTAL TEMPERATURE (IN)	941.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.920
ENVIRONMENTAL HUMIDITY (PER CENT)	27.000
CALIBRATION FACTOR (IN TO CM/SEC)	0.25
INSTRUMENTATION NOISE FLOOR (DB)	37.500

1/10 HOURS AND SOUND POWER LEVEL FOR NOISE TEST

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL (SCALE FOR THRUST)
OVERALL	0.12409E-01	120.1	THRUST 10000 POWER LEVEL (DB) 140.1
500	4.18337E-03	100.2	20000 143.1
1000	2.41657E-02	108.4	40000 148.1
2000	1.89405E-01	125.7	80000 149.1
4000	1.82457E-01	124.8	
8000	2.45544E-01	125.1	
16000	8.52380E-02	119.2	
32000	3.43783E-02	115.1	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	300	OCTAVE 1000	BAND 2000	SOUND PRESSURE LEVEL 3000	5000	6000	8000	OVERALL
33.0	88.2	81.2	88.2	110.2	85.2	78.0	75.2	104.8
33.6	87.2	80.2	87.2	111.2	86.2	79.0	76.2	105.8
34.2	86.2	79.2	86.2	112.2	87.2	80.0	77.2	106.8
34.8	85.2	78.2	85.2	113.2	88.2	81.0	78.2	107.8
35.4	84.2	77.2	84.2	114.2	89.2	82.0	79.2	108.8
36.0	83.2	76.2	83.2	115.2	90.2	83.0	80.2	109.8
36.6	82.2	75.2	82.2	116.2	91.2	84.0	81.2	110.8
37.2	81.2	74.2	81.2	117.2	92.2	85.0	82.2	111.8
37.8	80.2	73.2	80.2	118.2	93.2	86.0	83.2	112.8
38.4	79.2	72.2	79.2	119.2	94.2	87.0	84.2	113.8
39.0	78.2	71.2	78.2	120.2	95.2	88.0	85.2	114.8
39.6	77.2	70.2	77.2	121.2	96.2	89.0	86.2	115.8
40.2	76.2	69.2	76.2	122.2	97.2	90.0	87.2	116.8
40.8	75.2	68.2	75.2	123.2	98.2	91.0	88.2	117.8
41.4	74.2	67.2	74.2	124.2	99.2	92.0	89.2	118.8
42.0	73.2	66.2	73.2	125.2	100.2	93.0	90.2	119.8
42.6	72.2	65.2	72.2	126.2	101.2	94.0	91.2	120.8
43.2	71.2	64.2	71.2	127.2	102.2	95.0	92.2	121.8
43.8	70.2	63.2	70.2	128.2	103.2	96.0	93.2	122.8
44.4	69.2	62.2	69.2	129.2	104.2	97.0	94.2	123.8
45.0	68.2	61.2	68.2	130.2	105.2	98.0	95.2	124.8
45.6	67.2	60.2	67.2	131.2	106.2	99.0	96.2	125.8
46.2	66.2	59.2	66.2	132.2	107.2	100.0	97.2	126.8
46.8	65.2	58.2	65.2	133.2	108.2	101.0	98.2	127.8
47.4	64.2	57.2	64.2	134.2	109.2	102.0	99.2	128.8
48.0	63.2	56.2	63.2	135.2	110.2	103.0	100.2	129.8
48.6	62.2	55.2	62.2	136.2	111.2	104.0	101.2	130.8
49.2	61.2	54.2	61.2	137.2	112.2	105.0	102.2	131.8
49.8	60.2	53.2	60.2	138.2	113.2	106.0	103.2	132.8
50.4	59.2	52.2	59.2	139.2	114.2	107.0	104.2	133.8
51.0	58.2	51.2	58.2	140.2	115.2	108.0	105.2	134.8
51.6	57.2	50.2	57.2	141.2	116.2	109.0	106.2	135.8
52.2	56.2	49.2	56.2	142.2	117.2	110.0	107.2	136.8
52.8	55.2	48.2	55.2	143.2	118.2	111.0	108.2	137.8
53.4	54.2	47.2	54.2	144.2	119.2	112.0	109.2	138.8
54.0	53.2	46.2	53.2	145.2	120.2	113.0	110.2	139.8
54.6	52.2	45.2	52.2	146.2	121.2	114.0	111.2	140.8
55.2	51.2	44.2	51.2	147.2	122.2	115.0	112.2	141.8
55.8	50.2	43.2	50.2	148.2	123.2	116.0	113.2	142.8
56.4	49.2	42.2	49.2	149.2	124.2	117.0	114.2	143.8
57.0	48.2	41.2	48.2	150.2	125.2	118.0	115.2	144.8
57.6	47.2	40.2	47.2	151.2	126.2	119.0	116.2	145.8
58.2	46.2	39.2	46.2	152.2	127.2	120.0	117.2	146.8
58.8	45.2	38.2	45.2	153.2	128.2	121.0	118.2	147.8
59.4	44.2	37.2	44.2	154.2	129.2	122.0	119.2	148.8
60.0	43.2	36.2	43.2	155.2	130.2	123.0	120.2	149.8
60.6	42.2	35.2	42.2	156.2	131.2	124.0	121.2	150.8
61.2	41.2	34.2	41.2	157.2	132.2	125.0	122.2	151.8
61.8	40.2	33.2	40.2	158.2	133.2	126.0	123.2	152.8
62.4	39.2	32.2	39.2	159.2	134.2	127.0	124.2	153.8
63.0	38.2	31.2	38.2	160.2	135.2	128.0	125.2	154.8
63.6	37.2	30.2	37.2	161.2	136.2	129.0	126.2	155.8
64.2	36.2	29.2	36.2	162.2	137.2	130.0	127.2	156.8
64.8	35.2	28.2	35.2	163.2	138.2	131.0	128.2	157.8
65.4	34.2	27.2	34.2	164.2	139.2	132.0	129.2	158.8
66.0	33.2	26.2	33.2	165.2	140.2	133.0	130.2	159.8
66.6	32.2	25.2	32.2	166.2	141.2	134.0	131.2	160.8
67.2	31.2	24.2	31.2	167.2	142.2	135.0	132.2	161.8
67.8	30.2	23.2	30.2	168.2	143.2	136.0	133.2	162.8
68.4	29.2	22.2	29.2	169.2	144.2	137.0	134.2	163.8
69.0	28.2	21.2	28.2	170.2	145.2	138.0	135.2	164.8
69.6	27.2	20.2	27.2	171.2	146.2	139.0	136.2	165.8
70.2	26.2	19.2	26.2	172.2	147.2	140.0	137.2	166.8
70.8	25.2	18.2	25.2	173.2	148.2	141.0	138.2	167.8
71.4	24.2	17.2	24.2	174.2	149.2	142.0	139.2	168.8
72.0	23.2	16.2	23.2	175.2	150.2	143.0	140.2	169.8
72.6	22.2	15.2	22.2	176.2	151.2	144.0	141.2	170.8
73.2	21.2	14.2	21.2	177.2	152.2	145.0	142.2	171.8
73.8	20.2	13.2	20.2	178.2	153.2	146.0	143.2	172.8
74.4	19.2	12.2	19.2	179.2	154.2	147.0	144.2	173.8
75.0	18.2	11.2	18.2	180.2	155.2	148.0	145.2	174.8
75.6	17.2	10.2	17.2	181.2	156.2	149.0	146.2	175.8
76.2	16.2	9.2	16.2	182.2	157.2	150.0	147.2	176.8
76.8	15.2	8.2	15.2	183.2	158.2	151.0	148.2	177.8
77.4	14.2	7.2	14.2	184.2	159.2	152.0	149.2	178.8
78.0	13.2	6.2	13.2	185.2	160.2	153.0	150.2	179.8
78.6	12.2	5.2	12.2	186.2	161.2	154.0	151.2	180.8
79.2	11.2	4.2	11.2	187.2	162.2	155.0	152.2	181.8
79.8	10.2	3.2	10.2	188.2	163.2	156.0	153.2	182.8
80.4	9.2	2.2	9.2	189.2	164.2	157.0	154.2	183.8
81.0	8.2	1.2	8.2	190.2	165.2	158.0	155.2	184.8
81.6	7.2	0.2	7.2	191.2	166.2	159.0	156.2	185.8
82.2	6.2	0.2	6.2	192.2	167.2	160.0	157.2	186.8
82.8	5.2	0.2	5.2	193.2	168.2	161.0	158.2	187.8
83.4	4.2	0.2	4.2	194.2	169.2	162.0	159.2	188.8
84.0	3.2	0.2	3.2	195.2	170.2	163.0	160.2	189.8
84.6	2.2	0.2	2.2	196.2	171.2	164.0	161.2	190.8
85.2	1.2	0.2	1.2	197.2	172.2	165.0	162.2	191.8
85.8	0.2	0.2	0.2	198.2	173.2	166.0	163.2	192.8
86.4	0.2	0.2	0.2	199.2	174.2	167.0	164.2	193.8
87.0	0.2	0.2	0.2	200.2	175.2	168.0	165.2	194.8
87.6	0.2	0.2	0.2	201.2	176.2	169.0	166.2	195.8
88.2	0.2	0.2	0.2	202.2	177.2	170.0	167.2	196.8
88.8	0.2	0.2	0.2	203.2	178.2	171.0	168.2	197.8
89.4	0.2	0.2	0.2	204.2	179.2	172.0	169.2	198.8
90.0	0.2	0.2	0.2	205.2	180.2	173.0	170.2	199.8
90.6	0.2	0.2	0.2	206.2	181.2	174.0	171.2	200.8
91.2	0.2	0.2	0.2	207.2	182.2	175.0	172.2	201.8
91.8	0.2	0.2	0.2	208.2	183.2	176.0	173.2	202.8
92.4	0.2	0.2	0.2	209.2	184.2	177.0	174.2	203.8
93.0	0.2	0.2	0.2	210.2	185.2	178.0	175.2	204.8
93.6	0.2	0.2	0.2	211.2	186.2	179.0	176.2	205.8
94.2	0.2	0.2	0.2	212.2	187.2	180.0	177.2	206.8
94.8	0.2	0.2	0.2	213.2	188.2	181.0	178.2	207.8
95.4	0.2	0.2	0.2	214.2	189.2	182.0	179.2	208.8
96.0	0.2	0.2	0.2	215.2	190.2	183.0	180.2	209.8
96.6	0.2	0.2	0.2	216.2	191.2	184.0	181.2	210.8
97.2	0.2	0.2	0.2	217.2	192.2	185.0	182.2	211.8
97.8	0.2	0.2	0.2	218.2	193.2	186.0	183.2	212.8
98.4	0.2	0.2	0.2	219.2	194.2	187.0	184.2	213.8
99.0	0.2	0.2	0.2	220.2	195.2	188.0	185.2	214.8
99.6	0.2	0.2	0.2	221.2	196.2	189.0	186.2	215.8
100.2	0.2	0.2	0.2	222.2	197.2	190.0	187.2	216.8
100.8	0.2	0.2	0.2	223.2	198.2	191.0	188.2	217.8
101.4	0.2	0.2	0.2	224.2	199.2	192.0	189.2	218.8
102.0	0.2	0.2	0.2	225.2	200.2	193.0	190.2	219.8
102.6	0.2	0.2	0.2	226.2	201.2	194.0	191.2	220.8
103.2	0.2	0.2	0.2	227.2	202.2	195.0	192.2	221.8
103.8	0.2	0.2	0.2	228.2	203.2	196.0	193.2	222.8
104.4	0.2	0.2	0.2	229.2	204.2	197.0	194.2	223.8
105.0	0.2	0.2	0.2	230.2	205.2	198.0	195.2	224.8
105.6	0.2	0.2	0.2	231.2	206.2	199.0	196.2	225.8
106.2	0.2	0.2	0.2	232.2	207.2	200.0	197.2	226.8
106.8	0.2	0.2	0.2	233.2	208.2	201.0	198.2	227.8

RUL NUMBER	146,000
AXIAL POSITION OF PRIMARY WAT, SECONDARY (INS.)	0,000
PRIMARY TEMPERATURE (°F)	910,000
SECONDARY TEMPERATURE (°F)	533,000
PRIMARY PRESSURE (PSI)	1,000
AREA RATIO	1,000
VELOCITY RATIO	1,728
PRIMARY VELOCITY (FT/SEC)	1176,432
MASS FLOW RATIO	1,428
PRIMARY MASS FLOW (LB/SEC)	1,172
THRUST (LBS)	12,789
ENVIRONMENTAL TEMPERATURE (°F)	538,000
ENVIRONMENTAL PRESSURE (IN.HG)	29,400
ENVIRONMENTAL HUMIDITY (PER CENT)	31,000
CALIBRATION FACTOR (IN. TO FT/50 CM)	1,028
INSTRUMENTATION NOISE FLOOR (DB)	58,584

TIC POWER AND SOUND POWER LEVEL FOR MODEL JET

REQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1,43761E+00	131,0	THRUST	POWER LEVEL (DB)
500	6,00012E+03	108,2	10000	103,5
1000	5,18695E+02	117,1	20000	100,5
2000	2,55813E+01	124,1	40000	109,5
4000	1,86535E+01	125,9		
8000	1,53649E+01	125,5		
16000	2,42717E+01	127,2		
31500	1,75500E+01	122,4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15,0	87,5	95,5	100,5	99,3	95,6	90,2	21,5	104,3
20,0	87,0	96,1	101,7	100,9	97,4	92,5	93,2	106,1
25,0	82,7	95,6	101,9	101,9	98,8	93,5	94,1	106,8
30,0	84,7	94,4	101,4	102,5	99,6	94,0	95,4	107,0
35,0	84,6	92,7	100,9	102,3	103,2	98,0	95,8	107,0
40,0	81,9	91,4	99,2	101,9	100,0	90,0	96,5	106,6
45,0	82,3	89,4	97,3	100,2	100,3	92,4	96,8	102,8
50,0	78,6	87,5	95,0	98,5	99,0	97,0	96,8	104,6
55,0	78,8	82,4	93,4	96,7	98,3	98,5	96,7	103,7
60,0	77,7	83,7	91,4	95,0	96,8	95,4	95,7	102,3
65,0	74,6	82,3	89,9	93,7	95,6	94,9	94,2	101,1
70,0	73,6	81,5	88,9	92,8	94,9	94,1	92,3	100,1
75,0	72,9	80,7	87,8	91,8	93,7	93,3	90,6	99,0
80,0	73,1	80,0	86,8	90,8	92,7	92,2	89,8	98,0
85,0	72,8	79,9	86,0	90,1	92,1	91,0	89,2	97,4
90,0	72,3	79,4	85,5	88,9	91,3	90,6	88,0	96,4
95,0	71,9	78,3	85,2	88,6	90,9	90,0	87,4	96,0
100,0	71,9	78,7	84,6	88,2	90,6	89,8	86,7	95,6
105,0	70,4	77,3	83,8	87,5	89,9	88,9	85,9	94,8
110,0	69,9	76,4	83,3	87,2	89,0	88,7	85,0	94,6
115,0	69,9	75,3	82,3	86,4	88,0	88,5	82,6	94,0

MODEL THRUST = 12,789 FULL SCALE THRUST = 20000,000

PWDB	DASPL	OCTAVE 12,6	BAND 25,1	SOUND 50,6	PRESSURE 101,2	LEVELS 202,3	404,6	796,6	1593,1	3181,0	6321,9	12643,8
1,6	80,5(79,3)	31,6	64,70	72,78	77,77	76,27	72,07	65,34	63,07	51,57	30,67	-7,69
1,7	82,7(81,1)	35,4	62,84	75,25	81,26	80,42	76,52	70,53	68,56	59,13	42,54	-37,34
1,8	85,2(83,7)	38,0	67,24	77,06	83,39	83,34	79,83	73,68	72,17	63,07	49,92	-25,30
1,9	81,9(80,3)	39,7	67,62	77,36	84,35	85,31	82,19	76,67	75,44	66,04	55,74	-34,47
2,0	83,9(81,7)	40,8	67,74	76,97	85,61	86,34	84,07	79,21	77,47	70,50	59,48	-40,55
2,1	82,3(82,5)	41,4	67,04	76,56	84,29	86,92	82,32	81,04	79,33	72,96	62,73	-45,54
2,2	82,3(82,3)	41,4	66,24	75,31	83,22	86,07	80,04	82,55	80,64	74,53	64,95	-49,03
2,3	80,4(82,1)	40,2	65,23	74,14	81,62	85,26	82,44	82,95	81,49	75,62	68,55	-51,63
2,4	78,3(82,4)	40,6	64,04	72,69	80,64	83,81	85,35	83,09	82,17	76,48	67,81	-53,66
2,5	76,7(81,7)	39,7	63,43	71,40	79,14	82,73	84,32	82,49	81,77	76,22	67,86	-54,31
2,6	75,1(81,2)	39,0	62,31	70,42	78,65	81,75	83,71	82,40	81,69	75,74	67,14	-54,06
2,7	74,1(81,9)	38,3	62,67	69,88	77,92	81,14	83,15	81,95	81,12	74,85	63,98	-53,18
2,8	72,9(80,8)	37,4	62,54	69,33	76,45	80,41	82,34	81,38	80,74	72,40	64,67	-52,24
2,9	72,2(80,9)	37,4	61,35	68,87	75,81	79,56	81,34	80,44	79,13	71,95	64,18	-51,90
3,0	72,7(80,4)	36,1	61,74	68,84	74,95	78,84	80,88	80,02	79,70	71,42	63,83	-51,65
3,1	71,2(80,4)	35,1	61,23	68,13	74,44	77,64	80,07	79,01	78,52	70,32	62,67	-50,53
3,2	70,0(80,1)	34,7	60,84	67,20	74,15	77,59	79,70	78,42	78,08	69,88	62,01	-49,84
3,3	68,6(80,1)	34,2	60,27	66,22	73,42	76,22	77,24	78,30	78,24	68,54	61,63	-48,00
3,4	67,0(80,1)	33,2	59,29	65,51	72,44	75,10	76,40	76,87	76,74	67,74	60,95	-47,49
3,5	65,4(80,1)	32,7	58,24	64,51	71,13	73,10	74,41	75,52	75,65	67,31	60,16	-46,64
3,6	63,7(80,1)	31,4	57,26	63,45	70,45	72,45	73,45	74,37	74,04	66,04	59,51	-45,43

RMK NUMBER	147.000
AXIAL POSITION OF PRIMARY WPT, SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (°F)	910.000
SECONDARY TEMPERATURE (°F)	930.000
PRIMARY PRESSURE (PSI)	1.000
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	1170.000
MASS FLOW RATIO	1.000
PRIMARY MASS FLOW (LB/SEC)	1.000
INERT (LBS)	1.000
ENVIRONMENTAL TEMPERATURE (°F)	930.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.92
ENVIRONMENTAL HUMIDITY (PER CENT)	31.000
CALIBRATION FACTOR (V TO FT/SEC CM)	0.000
INSTRUMENTATION NOISE FLOOR (DB)	80.000

TIC POWER AND SOUND POWER LEVEL FOR MODEL JET

REQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	2.30040E+00	133.7	10000	101.0
500	1.02519E-02	110.1	20000	104.0
1000	0.01382E-02	113.2	40000	107.0
2000	4.01472E-01	126.0	80000	170.0
4000	0.70723E-01	128.3		
8000	0.00071E-01	127.8		
16000	3.00075E-01	125.7		
31500	2.40000E-01	123.4		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND	SOUND PRESSURE LEVEL	SOUND PRESSURE LEVEL	SOUND PRESSURE LEVEL	SOUND PRESSURE LEVEL	SOUND PRESSURE LEVEL	OVER ALL	
	200	1000	2000	4000	8000	16000	31500	
15.0	97.5	97.6	102.1	131.0	96.3	91.1	91.6	106.8
20.0	97.1	97.4	103.5	103.2	98.2	92.6	92.3	107.0
25.0	97.7	97.4	103.7	104.4	100.2	92.2	94.7	108.7
30.0	98.4	96.4	103.5	104.5	101.0	90.5	95.0	108.8
35.0	97.1	94.8	102.6	104.4	101.8	97.7	98.7	108.7
40.0	98.3	92.9	101.2	103.8	102.1	98.4	90.7	108.3
45.0	98.2	91.2	99.3	102.7	102.5	99.2	97.6	107.8
50.0	98.1	89.0	97.4	100.6	101.4	99.0	98.0	106.7
55.0	97.9	88.9	97.4	98.7	99.9	98.0	98.8	105.8
60.0	97.0	85.7	94.1	98.7	101.3	99.7	99.6	105.6
65.0	97.8	84.1	92.3	97.3	100.1	99.0	99.0	104.0
70.0	97.6	83.3	91.3	96.3	98.8	98.2	94.6	103.0
75.0	97.4	83.3	89.7	94.3	96.1	97.4	93.0	101.1
80.0	97.9	82.4	89.4	93.4	95.2	94.4	92.0	100.4
85.0	97.8	82.3	88.5	92.5	94.3	93.5	91.2	99.5
90.0	97.8	81.9	88.0	91.9	94.0	93.3	90.7	99.1
95.0	97.8	80.9	87.2	91.4	93.4	92.7	90.1	98.8
100.0	97.6	80.5	87.3	91.0	93.0	92.3	89.4	98.1
105.0	97.8	80.0	86.7	90.9	92.6	91.8	88.9	97.7
110.0	97.2	78.9	86.0	90.3	92.3	91.2	88.1	97.2
115.0	97.2	78.0	84.7	89.4	91.4	91.4	88.6	96.7

MODEL THRUST = 10,466 FULL SCALE THRUST = 20000,000

L	P.W.D.	CASE	OCTAVE BAND	SOUND PRESSURE LEVELS
			14.4 28.7 57.4 114.8 229.7 459.4 904.4 1808.7 3588.8 7177.8 14355.1	
5.0	81.4 (89.4)	62.3	65.50	73.71 78.17 77.71 71.56 64.59 61.01 48.16 24.72 -17.79 -89.17
5.2	81.4 (89.4)	66.1	67.32	74.35 78.81 78.35 72.10 65.16 61.52 48.17 24.73 -17.80 -89.18
5.4	81.4 (89.4)	68.7	68.07	75.02 79.48 79.02 72.77 65.81 62.17 48.18 24.74 -17.81 -89.19
5.6	81.4 (89.4)	70.4	68.33	75.28 79.74 79.28 72.93 66.07 62.43 48.19 24.75 -17.82 -89.20
5.8	81.4 (89.4)	71.5	68.59	75.39 79.85 79.39 73.04 66.18 62.54 48.20 24.76 -17.83 -89.21
6.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
6.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
6.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
6.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
6.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
7.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
7.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
7.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
7.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
7.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
8.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
8.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
8.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
8.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
8.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
9.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
9.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
9.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
9.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
9.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
10.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
10.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
10.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
10.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
10.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
11.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
11.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
11.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
11.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
11.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
12.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
12.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
12.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
12.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
12.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
13.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
13.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
13.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
13.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
13.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
14.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
14.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
14.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
14.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
14.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
15.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
15.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
15.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
15.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
15.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
16.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
16.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
16.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
16.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
16.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
17.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
17.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
17.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
17.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
17.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
18.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
18.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
18.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
18.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
18.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
19.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
19.2	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
19.4	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
19.6	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
19.8	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22
20.0	81.4 (89.4)	72.0	68.64	75.44 79.90 79.44 73.09 66.23 62.59 48.21 24.77 -17.84 -89.22

SEA NUMBER	148,000
AXIAL POSITION OF PRIMARY WHT, SECONDARY (INCH)	0.000
PRIMARY TEMPERATURE (°F)	910.000
SECONDARY TEMPERATURE (°F)	930.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	2.007
VELOCITY RATIO	1.378
PRIMARY VELOCITY (FT/SEC)	1178.492
MASS FLOW RATE	1.378
PRIMARY MASS FLOW (LBS/SEC)	0.170
THRUST (LBS)	9.445
ENVIRONMENTAL TEMPERATURE (°F)	538.000
ENVIRONMENTAL PRESSURE (INCH Hg)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	33.000
CALIBRATION FACTOR (INCH TO MM/SEC CM)	0.025
INSTRUMENTATION NOISE FLTOR (DB)	57.590

SIG. POWER AND SOUND POWER LEVEL FOR MODEL J-7

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	8.90804E-01	109.5	THRUST	POWER LEVEL (DB)
500	3.70921E-03	105.8	10000	109.7
1000	3.27695E-02	115.2	20000	102.8
2000	1.72887E-01	122.4	40000	105.8
4000	2.47782E-01	124.7	80000	105.8
8000	2.40034E-01	123.5		
16000	1.11282E-01	122.5		
31500	4.00770E-02	119.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	200	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	82.1	94.1	99.8	92.8	95.9	88.4	82.9	104.3
20.0	84.4	94.2	100.0	101.5	97.7	90.0	85.4	105.5
25.0	83.9	93.9	100.7	102.4	98.4	92.4	87.4	106.1
30.0	82.4	92.3	100.2	102.2	98.9	93.3	88.0	106.0
35.0	81.3	91.2	99.2	101.9	99.5	94.0	90.0	105.8
40.0	79.5	89.6	97.6	100.3	98.9	92.0	90.5	104.7
45.0	78.1	87.1	95.2	98.5	98.2	92.2	91.0	103.3
50.0	75.5	85.0	92.8	96.2	97.1	94.9	91.1	102.0
55.0	73.4	82.2	89.9	93.9	95.2	94.3	90.8	100.8
60.0	74.6	83.4	87.9	92.1	94.3	93.0	89.4	99.0
65.0	71.0	78.9	86.2	90.2	91.7	91.7	88.4	97.7
70.0	70.6	78.1	85.2	89.5	91.6	90.7	87.4	96.6
75.0	70.3	77.3	84.3	88.5	91.2	89.6	86.4	95.7
80.0	70.0	77.0	83.4	87.2	89.3	88.1	85.1	94.2
85.0	70.2	76.7	82.9	86.5	88.4	86.9	84.0	93.3
90.0	70.0	75.8	82.0	85.6	87.3	85.8	82.8	92.2
95.0	69.2	75.2	81.4	84.8	86.4	84.9	81.9	91.4
100.0	68.0	74.8	80.8	84.0	85.3	84.3	81.8	90.8
105.0	65.2	74.0	77.8	83.4	84.2	83.4	80.7	92.0
110.0	67.1	73.4	79.5	82.7	84.2	82.7	80.3	89.3
115.0	64.0	72.9	78.5	82.3	83.0	81.2	79.2	88.2

MODEL THRUST = 9.445 FULL SCALE THRUST = 20000.000

ANGLE	200	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	OVERALL
10.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
15.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
20.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
25.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
30.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
35.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
40.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
45.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
50.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
55.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
60.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
65.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
70.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
75.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
80.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
85.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
90.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
95.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
100.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
105.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
110.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4
115.0	21.7	43.5	66.9	173.8	347.7	684.5	1360.1	2716.4

RUN NUMBER	149,000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	910,000
SECONDARY TEMPERATURE (IN)	525,000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	2.007
VELOCITY RATIO	.722
PRIMARY VELOCITY (FT/SEC)	1176,402
MASS FLOW RATIO	1.052
PRIMARY MASS FLOW (LB/SEC)	1.166
THRUST (LBS)	19,707
ENVIRONMENTAL TEMPERATURE (IN)	533,000
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	35,000
CALIBRATION FACTOR (LV TO HV/SC CH)	.032
INSTRUMENTATION NOISE FLOOR (DB)	59,573

SPEC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	1.86487E+00	132.6	THRUST 19707 POWER LEVEL (DB) 159.8
500	1.04318E-02	112.2	20000 102.8
1000	1.07729E-01	120.3	40000 105.8
2000	3.77830E-01	126.0	80000 108.8
4000	2.28418E-01	127.4	
8000	4.06985E-01	126.9	
16000	2.35877E-01	123.7	
31500	6.98677E-02	119.5	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	91.4	98.8	101.9	99.2	95.2	89.7	85.3	105.7
20.0	91.5	99.4	103.1	100.9	97.3	92.0	87.3	107.0
25.0	91.9	98.8	103.5	102.3	98.3	94.1	89.4	107.6
30.0	90.1	97.5	103.5	103.4	100.6	95.7	90.5	108.3
35.0	89.5	95.7	102.5	102.7	101.4	96.6	91.6	109.2
40.0	89.6	94.0	101.3	100.6	102.1	97.8	92.6	108.0
45.0	88.8	91.8	99.3	102.3	102.0	98.2	93.3	107.7
50.0	89.9	89.8	97.1	100.5	101.1	98.2	93.6	106.0
55.0	77.2	88.1	94.9	98.7	100.0	97.4	93.3	104.6
60.0	77.1	86.3	93.2	97.1	98.5	96.2	92.1	103.1
65.0	77.4	86.6	92.2	95.9	97.3	95.1	91.0	102.0
70.0	77.7	84.2	91.6	94.9	96.1	94.0	90.2	101.0
75.0	77.4	84.5	89.9	93.6	94.9	92.1	88.4	99.9
80.0	78.1	84.3	89.8	92.7	94.1	92.4	89.0	99.2
85.0	78.2	84.2	89.3	92.2	93.3	91.6	88.1	98.2
90.0	78.3	83.8	88.6	91.1	92.4	90.5	86.9	97.5
95.0	77.2	83.1	88.5	91.0	92.2	90.2	87.0	97.3
100.0	77.2	82.9	88.4	90.1	91.8	89.4	86.4	96.7
105.0	77.8	81.2	87.8	89.8	90.9	89.0	86.1	96.2
110.0	77.4	81.0	87.3	89.0	90.7	88.6	85.8	96.0
115.0	77.1	80.1	86.2	89.0	89.7	88.2	85.8	95.1

MODEL THRUST = 19,707 FULL SCALE THRUST = 20000,000

ANGLE	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
19.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
23.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
27.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
31.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
35.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
39.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
43.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
47.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
51.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
55.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
59.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
63.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
67.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
71.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
75.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
79.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
83.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
87.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
91.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
95.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
99.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
103.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
107.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
111.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8
115.7	31.4	62.8	129.6	251.1	502.2	908.8	1977.6	3923.8

ROT NUMBER	150.00 (811.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	8.000
PRIMARY TEMPERATURE (K)	910.000
SECONDARY TEMPERATURE (K)	920.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	2.007
VELOCITY RATIO	0.868
PRIMARY VELOCITY (FT/SEC)	1176.402
MASS FLOW RATIO	4.082
PRIMARY MASS FLOW (LH/SEC)	1.100
THRUST (LBS)	26.597
ENVIRONMENTAL TEMPERATURE (K)	533.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	35.000
CALIBRATION FACTOR (IN TO IN/SEC CM)	0.050
INSTRUMENTATION NOISE FLOOR (DB)	63.559

TYPIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.02641E+00	130.0	THRUST 13000	POWER LEVEL (DB) 101.3
500	2.04229E-02	114.2	21000	104.3
1000	2.02158E-01	123.2	41000	107.3
2000	9.00661E-03	129.6	83000	112.4
4000	1.19332E-03	130.6		
8000	9.08222E-03	129.6		
16000	9.31212E-03	127.3		
31500	2.94376E-03	124.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	200	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	8000	16000	31500	OVER ALL
15.0	93.7	101.7	105.1	103.3	97.1	92.2	89.9	109.0
20.0	94.5	102.3	107.0	105.3	100.0	95.3	92.4	110.6
25.0	92.4	101.5	107.4	105.7	101.3	97.1	94.6	111.1
30.0	92.1	100.7	107.2	106.5	102.4	98.1	94.6	111.4
35.0	89.2	99.1	106.5	107.1	103.7	100.2	97.0	111.6
40.0	84.9	96.7	104.9	106.1	104.2	100.4	97.5	110.7
45.0	84.6	94.1	102.5	102.0	104.4	101.2	97.8	110.0
50.0	84.9	92.3	100.3	103.2	103.5	100.9	97.8	108.7
55.0	84.4	90.1	97.9	100.9	101.4	99.3	96.7	108.7
60.0	84.4	88.6	96.2	99.8	100.9	99.3	97.4	108.1
65.0	84.6	88.0	94.0	99.1	100.5	99.1	96.9	105.6
70.0	80.4	87.0	94.6	98.3	99.8	98.4	95.9	104.9
75.0	77.8	87.4	93.6	97.4	98.7	97.3	95.2	103.9
80.0	80.4	87.2	91.5	96.8	97.7	96.7	94.8	103.3
85.0	80.0	87.3	92.8	98.2	97.2	96.1	94.2	102.7
90.0	79.0	86.4	92.5	95.6	97.1	95.5	93.3	102.2
95.0	78.5	86.2	92.0	95.2	96.4	94.8	92.7	101.6
100.0	78.9	85.9	91.8	95.0	96.3	95.1	92.7	101.6
105.0	77.8	85.1	91.3	94.6	95.5	94.4	92.2	101.0
110.0	70.6	83.7	90.8	94.6	95.3	94.1	92.1	100.8
115.0	70.3	82.5	89.4	93.8	94.9	94.2	91.4	100.3

MODEL THRUST = 26.597 FULL SCALE THRUST = 20000.000

1.	PWRH.	DASH	OCTAVE BAND 10.2	36.9	72.9	145.9	291.7	583.5	1148.7	2297.4	4595.4	9114.7	18233.4
25.6	81.3 (80.4)	82.7	67.79	75.76	79.05	76.97	89.86	82.58	54.59	38.72	9.85	-41.42	-125.18
25.7	81.7 (85.2)	86.9	69.84	78.78	83.44	81.51	79.52	68.92	61.81	48.07	26.58	-33.04	-77.14
29.3	85.9 (89.8)	89.1	70.10	79.84	85.63	83.78	78.87	73.15	67.18	58.27	37.44	4.87	-47.54
30.0	82.2 (91.3)	90.8	70.80	80.43	88.92	86.09	81.53	75.94	69.57	59.91	43.52	15.53	-29.27
39.2	84.7 (91.3)	92.2	70.18	80.02	87.43	87.87	84.12	79.54	73.75	64.94	50.27	25.48	-13.94
42.8	82.9 (94.1)	92.2	68.83	78.63	86.40	87.91	82.65	80.92	75.74	67.56	54.14	31.71	-3.91
51.3	80.8 (94.0)	92.3	67.42	76.92	85.20	87.67	80.70	82.60	77.15	69.44	58.97	36.30	3.74
58.1	78.9 (94.5)	91.2	66.93	76.82	83.23	84.54	80.52	83.19	78.11	70.76	59.02	39.71	9.43
61.2	85.6 (93.1)	90.2	65.49	74.19	81.94	84.82	85.02	82.25	77.84	70.77	59.88	41.35	12.63
72.1	81.8 (93.2)	91.2	64.99	73.11	81.65	84.24	89.02	82.80	79.15	72.30	61.57	44.15	17.01
85.1	80.8 (93.1)	90.0	65.59	72.97	79.87	83.94	85.05	83.04	79.16	72.49	62.10	45.31	19.25
100.3	82.2 (92.2)	89.6	65.73	73.19	79.86	83.40	84.21	82.65	78.63	72.69	61.56	45.87	20.43
120.9	80.8 (92.0)	89.9	65.37	72.86	79.48	82.65	83.82	81.85	78.21	71.76	61.83	45.98	21.46
131.4	84.5 (91.6)	88.4	66.11	72.83	79.69	82.35	83.05	81.39	78.04	71.66	61.86	46.17	21.25
157.7	84.1 (91.9)	88.3	65.79	72.83	79.55	81.83	82.64	80.94	77.55	71.24	61.48	45.94	21.94
200.0	83.6 (92.8)	87.6	65.37	72.55	78.23	81.32	82.53	80.39	76.69	71.36	60.67	45.17	21.27
250.7	82.9 (90.9)	86.9	64.64	71.97	77.74	80.61	81.81	79.68	76.08	69.73	60.01	44.47	20.40
315.1	82.2 (92.2)	86.8	64.53	71.52	77.45	80.21	81.12	79.78	75.93	69.57	59.17	44.08	19.56
400.9	81.9 (92.8)	86.3	64.33	70.82	76.94	80.64	80.64	78.21	74.84	68.83	58.90	43.90	18.24
500.3	81.3 (91.3)	85.4	64.07	69.07	75.77	79.70	81.17	78.34	74.69	68.77	58.14	43.85	18.11
631.1	80.3 (91.5)	84.4	61.22	67.45	74.11	77.67	79.51	76.17	73.64	68.97	58.59	43.80	17.74

MUR NUMBER	151,000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	0,000
PRIMARY TEMPERATURE (IN)	910,000
SECONDARY TEMPERATURE (IN)	520,000
PRIMARY PRESSURE RATIO	1,000
AREA RATIO	4,856
VELOCITY RATIO	1,375
PRIMARY VELOCITY (FT/SEC)	1176,402
MASS FLOW RATIO	3,292
PRIMARY MASS FLOW (LB/SEC)	1,170
THRUST (LBS)	13,872
ENVIRONMENTAL TEMPERATURE (IN)	534,000
ENVIRONMENTAL PRESSURE (IN.HG)	29,400
ENVIRONMENTAL HUMIDITY (PER CENT)	33,000
CALIBRATION ERROR (MV TO DY/SL CH)	0,18
INSTRUMENTATION NOISE FLOOR (DB)	54,586

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.01854E-01	124.8	THRUST	POWER LEVEL (DB)
500	4.50770E-03	106.5	10000	125.4
1000	2.49265E-02	113.9	20000	129.4
2000	9.24216E-02	119.7	40000	129.4
4000	1.06430E-01	120.2	80000	129.4
8000	5.40044E-02	117.3		
16000	1.52258E-02	111.9		
31500	6.06846E-03	107.8		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	200	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	82.6	92.9	96.9	95.6	89.6	74.1	70.0	100.7
20.0	85.4	93.1	98.1	97.2	90.9	75.3	71.1	101.9
25.0	84.7	92.7	98.3	97.6	91.3	77.9	72.5	102.1
30.0	83.7	91.0	97.2	97.3	92.5	80.4	73.8	101.4
35.0	81.8	89.5	96.4	97.1	92.5	83.2	76.4	101.0
40.0	79.9	87.8	94.6	95.8	93.9	85.7	78.6	99.9
45.0	78.4	86.2	92.1	94.1	92.5	89.7	80.5	98.5
50.0	76.2	83.5	89.5	91.7	91.4	87.2	82.0	96.7
55.0	75.2	81.7	87.9	89.9	90.2	89.0	82.0	95.3
60.0	74.0	79.5	85.3	87.8	88.4	89.4	81.5	93.5
65.0	72.4	78.0	84.0	86.3	86.7	89.9	80.7	92.0
70.0	71.3	77.7	82.8	85.2	85.3	84.4	79.6	90.8
75.0	71.3	77.0	81.9	84.1	84.2	81.5	78.9	89.8
80.0	70.8	76.4	81.6	83.2	83.4	80.6	78.0	89.0
85.0	70.4	75.8	80.7	82.5	82.4	79.7	77.3	88.2
90.0	69.9	75.2	79.7	81.6	81.8	79.0	76.8	87.5
95.0	69.0	74.5	78.1	80.8	80.8	77.7	75.3	86.5
100.0	68.1	73.0	78.5	80.1	80.0	77.3	75.3	85.9
105.0	67.6	72.0	77.5	79.1	79.2	76.7	74.9	85.1
110.0	66.3	71.0	76.8	78.8	78.7	75.8	74.4	84.6
115.0	67.6	72.2	76.4	78.2	77.9	75.3	73.9	84.0

MODEL THRUST = 13,872 FULL SCALE THRUST = 20000,000

L	PNDR.	OASPL	OCTAVE 13.2	BAND 24.3	SOUND 52.7	PRESSURE 105.1	LEVELS 210.7	421.4	820.8	1659.2	3292.1	6584.1	13168.3
795.6	72.51	72.01	77.4	82.54	89.73	73.69	72.29	85.71	47.74	40.81	26.98	7.18	-42.42
385.7	22.41	20.01	81.1	84.89	72.37	77.42	70.33	82.64	52.84	45.86	30.11	10.95	-11.75
549.3	80.41	70.61	83.1	85.84	73.80	79.43	76.54	72.63	57.88	49.91	41.44	20.94	-4.78
820.0	42.21	01.31	83.9	80.27	73.63	79.22	79.73	74.19	61.82	53.18	45.48	32.79	-10.85
815.2	83.91	07.71	84.7	85.63	73.37	80.14	80.81	75.94	65.99	57.48	56.43	36.99	-14.52
333.6	82.11	83.61	84.3	84.73	72.82	78.32	72.41	77.20	69.57	60.92	54.41	43.26	-14.25
121.3	85.81	87.31	83.9	83.90	71.81	77.74	79.64	77.87	71.58	63.94	57.04	47.83	-11.43
978.1	81.91	88.21	82.8	82.47	88.79	75.22	77.97	72.49	72.70	66.27	61.26	50.93	-35.97
831.2	81.51	87.81	82.0	81.75	88.61	74.73	76.77	70.69	72.74	66.98	61.17	52.25	-14.38
732.1	84.01	81.71	80.0	80.19	86.88	72.68	75.15	75.54	72.11	67.64	61.37	52.77	-18.84
655.1	83.71	84.51	79.5	80.22	86.36	71.71	74.01	74.27	71.00	66.71	61.14	52.81	-18.02
580.3	82.31	77.21	78.7	86.35	82.26	70.84	73.12	73.15	69.69	66.84	60.84	52.84	-19.07
529.9	81.11	74.71	77.9	80.59	85.33	70.18	72.34	72.34	69.10	65.84	60.24	52.84	-19.21
323.1	81.41	77.71	77.5	89.37	84.90	70.68	71.81	71.84	68.49	64.90	59.56	51.64	-19.14
505.7	80.81	77.11	76.7	88.97	84.36	69.24	71.02	70.84	67.74	64.34	59.04	51.64	-19.06
500.0	80.51	76.41	76.9	88.52	83.84	68.34	70.14	70.14	67.07	63.83	58.52	50.64	-18.58
575.7	76.71	75.11	74.9	88.21	83.84	67.67	69.20	69.84	65.72	62.58	57.24	49.41	-17.26
573.1	75.11	74.51	74.3	87.61	82.37	66.94	68.27	68.27	65.17	62.04	56.92	48.84	-16.47
572.9	77.21	74.51	73.7	89.44	81.77	65.44	67.34	67.34	64.37	61.34	56.27	48.11	-15.44
560.3	74.31	74.51	72.8	86.34	81.63	64.24	66.27	66.27	63.27	60.34	55.24	47.27	-15.43
655.1	78.21	71.61	71.4	85.61	84.64	63.11	65.09	65.44	62.34	59.34	54.30	48.24	-11.24

RUN NUMBER	#	152,000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	#	0.000
PRIMARY TEMPERATURE (IN)	#	910,000
SECONDARY TEMPERATURE (IN)	#	925,000
PRIMARY PRESSURE RATIO	#	1.000
AREA RATIO	#	4.056
VELOCITY RATIO	#	.722
PRIMARY VELOCITY (FT/SEC)	#	1176.402
MASS FLOW RATIO	#	6.652
PRIMARY MASS FLOW (LB/SEC)	#	.168
THRUST (LBS)	#	35.696
ENVIRONMENTAL TEMPERATURE (IN)	#	934,000
ENVIRONMENTAL PRESSURE (IN.HG)	#	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	#	33,000
CALIBRATION FACTOR (MW TO DY/SQ CM)	#	.028
INSTRUMENTATION NOISE FLOOR (DB)	#	50,584

TIC PLOT AND SOUND POWER LEVEL FOR MODEL JET

REQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.27618E+00	131.1	THRUST	POWER LEVEL (DB)
500	3.61044E-02	115.6	10000	125.5
1000	1.75307E-01	122.4	20000	128.5
2000	3.51625E-01	125.5	40000	131.6
4000	3.33061E-01	125.2	80000	134.6
8000	2.21299E-01	123.4		
16000	1.03044E-01	120.2		
31500	5.49685E-02	117.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	200	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 1000	2000	16000	31500	OVER ALL
15.0	94.4	99.8	99.4	94.0	87.0	82.0	78.6	103.9
20.0	93.7	100.3	100.9	95.6	89.0	83.2	80.4	104.8
25.0	93.6	100.1	101.7	97.1	90.5	84.8	82.0	102.3
30.0	94.5	99.6	102.4	98.3	92.2	86.5	83.6	105.7
35.0	99.2	98.6	102.0	99.8	94.1	88.3	84.9	105.8
40.0	89.3	96.6	101.1	99.9	95.2	89.6	86.5	105.1
45.0	86.9	95.5	99.6	99.7	96.3	90.6	87.1	104.6
50.0	85.4	92.8	92.3	98.6	93.5	87.5	84.0	103.1
55.0	84.2	91.7	96.8	98.1	98.7	92.4	89.8	103.0
60.0	85.4	89.9	95.1	97.0	96.4	92.9	90.0	102.2
65.0	82.5	89.5	94.2	96.0	95.6	92.4	89.2	101.4
70.0	82.0	88.5	93.4	95.1	94.9	91.9	89.1	100.7
75.0	85.7	87.4	92.2	94.2	94.3	92.0	89.7	100.1
80.0	80.7	86.6	91.5	93.5	93.6	91.3	88.9	99.4
85.0	79.9	86.6	92.0	92.7	93.1	91.1	88.6	98.8
90.0	79.9	85.4	90.2	92.4	92.8	90.8	88.3	98.5
95.0	79.3	85.0	89.5	91.8	92.4	90.2	88.2	98.1
100.0	79.0	84.3	88.9	90.9	91.7	89.7	87.2	97.2
105.0	78.3	83.8	88.4	90.7	91.1	89.6	87.2	97.0
110.0	77.3	83.3	86.3	90.4	90.6	89.0	87.2	96.6
115.0	77.2	82.6	87.5	90.3	90.7	89.0	86.7	96.3

MODEL THRUST = 35.696 FULL SCALE THRUST = 20000.000

PNDB		DASPL		OCTAVE		BAND		SOUND		PRESSURE		LEVELS				
		21.1		42.2		84.5		169.6		338.0		675.9		1338.8 2601.5 5280.8 10561.7 21123.3		
1.6	71.41	71.11	76.4	67.35	72.50	72.01	66.24	98.16	50.20	40.12	22.01	-10.71	-68.02	-159.89		
1.2	74.31	75.71	79.4	68.86	75.48	75.20	70.44	83.00	54.92	47.03	32.60	-7.11	-36.94	-107.24		
1.3	80.91	79.41	82.7	70.62	77.14	78.69	73.82	86.53	59.06	52.11	39.86	10.66	-17.60	-75.02		
1.8	82.11	82.11	84.1	70.99	78.05	80.88	78.59	89.82	62.67	58.28	45.46	27.08	-24.09	-50.03		
1.2	85.61	84.41	85.3	70.98	78.30	81.65	79.28	93.09	65.93	60.40	49.67	33.26	-5.75	-37.34		
1.8	82.01	85.21	84.8	67.25	77.25	81.72	80.31	92.21	60.50	62.62	59.55	39.22	12.71	-27.07		
1.3	87.01	86.41	85.8	63.34	76.98	81.00	81.05	97.26	70.47	64.44	53.91	42.03	19.15	-16.38		
1.1	87.01	85.11	85.8	67.62	75.31	84.52	82.58	98.16	72.16	65.40	56.30	45.26	23.91	-9.12		
1.2	86.91	87.11	85.5	67.01	74.45	79.54	80.74	98.97	73.77	68.01	60.74	47.85	27.60	-3.30		
1.1	85.91	87.71	85.0	63.70	73.21	79.25	80.11	99.14	74.85	69.89	62.37	50.48	31.25	1.69		
1.1	85.01	87.51	84.4	60.13	73.14	77.91	79.54	98.76	74.74	69.67	62.36	50.87	32.16	3.09		
1.3	85.41	87.21	84.2	62.97	72.43	77.32	78.89	98.37	74.67	69.96	62.30	51.61	31.60	0.12		
1.9	85.31	87.31	83.8	64.95	71.58	76.36	78.24	98.17	74.99	70.91	63.14	52.99	35.35	8.54		
1.1	85.91	88.31	83.3	63.12	73.99	75.91	77.82	97.77	74.54	70.29	63.32	52.51	35.24	8.89		
1.7	85.31	86.11	87.8	64.39	71.39	76.77	77.13	97.13	74.15	70.12	63.24	52.44	35.37	9.28		
1.0	85.21	85.71	82.5	61.43	72.93	74.65	76.70	96.87	74.17	69.33	63.02	52.33	35.27	9.27		
1.7	85.11	85.11	87.1	63.75	69.44	73.94	76.21	95.49	74.51	69.73	62.86	52.08	34.97	8.68		
1.1	85.11	84.11	81.2	63.34	68.62	73.25	76.13	95.15	72.94	68.64	61.59	52.88	33.91	7.25		
1.9	84.41	84.11	81.7	62.43	68.14	72.68	74.71	95.21	72.85	68.38	61.34	50.34	32.78	5.97		
1.3	84.71	84.11	82.2	61.31	67.13	72.25	74.24	94.74	71.72	67.25	60.75	51.81	31.81	4.33		
1.1	84.91	87.61	79.4	63.83	66.25	71.11	73.11	93.37	71.34	67.13	60.81	49.62	31.62	1.44		

AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	493.010
PRIMARY TEMPERATURE (°F)	3,000
SECONDARY TEMPERATURE (°F)	510.000
PRIMARY PRESSURE (PSI)	525.000
AREA RATIO	1.000
VELOCITY RATIO	4.056
PRIMARY VELOCITY (FT/SEC)	874
MASS FLOW RATIO	1176.402
PRIMARY MASS FLOW (LB/SEC)	8.044
THRUST (LBS)	157
ENVIRONMENTAL TEMPERATURE (°F)	50.000
ENVIRONMENTAL PRESSURE (IN.HG)	328.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.400
CALIBRATION FACTOR (KV TO MV/50 CH)	38.000
INSTRUMENTATION NOISE FLUX (DB)	83.000
	83.559

TIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.46866E+00	130.5	THRUST	POWER LEVEL (DB)
500	1.03253E-01	120.1	10000	122.4
1000	2.72292E-01	122.6	20000	124.4
2000	1.26422E+00	131.1	40000	125.5
4000	1.05618E+00	130.2	80000	126.5
8000	7.91474E-01	129.0		
16000	4.36647E-01	126.4		
31500	2.19090E-01	123.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND 2000	OCTAVE BAND 4000	OCTAVE BAND 8000	OCTAVE BAND 16000	OCTAVE BAND 31500	OVERALL
15.0	98.9	104.3	104.3	92.0	93.0	108.4
20.0	98.9	105.4	104.4	91.1	95.0	110.7
25.0	97.0	102.0	102.0	98.0	99.1	111.0
30.0	97.0	104.7	107.9	103.8	99.3	111.5
35.0	97.7	104.3	107.0	104.0	99.0	111.2
40.0	97.7	102.2	106.0	104.0	97.2	110.3
45.0	96.1	102.0	104.0	102.0	99.3	110.2
50.0	95.5	97.7	103.2	101.3	94.0	109.1
55.0	95.5	98.0	102.1	102.0	94.0	108.4
60.0	94.4	94.0	99.0	101.5	93.3	107.1
65.0	93.0	93.0	98.7	100.4	94.3	106.4
70.0	90.1	92.2	97.0	99.0	93.2	105.5
75.0	89.1	91.7	97.1	98.0	92.3	105.0
80.0	88.6	91.5	96.1	98.0	91.0	104.4
85.0	88.6	91.0	95.1	97.3	90.0	104.2
90.0	88.6	90.0	94.0	96.1	89.0	103.7
95.0	88.6	89.0	93.0	95.0	88.0	103.1
100.0	88.6	88.0	92.0	94.0	87.0	102.6
105.0	88.6	87.0	91.0	93.0	86.0	102.0
110.0	88.6	86.0	90.0	92.0	85.0	101.5
115.0	88.6	85.0	89.0	91.0	84.0	101.0
120.0	88.6	84.0	88.0	90.0	83.0	100.7

PURGE THROUST = 30,000 PULL SCALE THROUST = 20000,000

ANGLE (DEG)	OCTAVE BAND 2000	OCTAVE BAND 4000	OCTAVE BAND 8000	OCTAVE BAND 16000	OCTAVE BAND 31500	OVERALL
15.0	98.9	104.3	104.3	92.0	93.0	108.4
20.0	98.9	105.4	104.4	91.1	95.0	110.7
25.0	97.0	102.0	102.0	98.0	99.1	111.0
30.0	97.0	104.7	107.9	103.8	99.3	111.5
35.0	97.7	104.3	107.0	104.0	99.0	111.2
40.0	97.7	102.2	106.0	104.0	97.2	110.3
45.0	96.1	102.0	104.0	102.0	99.3	110.2
50.0	95.5	97.7	103.2	101.3	94.0	109.1
55.0	95.5	98.0	102.1	102.0	94.0	108.4
60.0	94.4	94.0	99.0	101.5	93.3	107.1
65.0	93.0	93.0	98.7	100.4	94.3	106.4
70.0	90.1	92.2	97.0	99.0	93.2	105.5
75.0	89.1	91.7	97.1	98.0	92.3	105.0
80.0	88.6	91.5	96.1	98.0	91.0	104.4
85.0	88.6	91.0	95.1	97.3	90.0	104.2
90.0	88.6	90.0	94.0	96.1	89.0	103.7
95.0	88.6	89.0	93.0	95.0	88.0	103.1
100.0	88.6	88.0	92.0	94.0	87.0	102.6
105.0	88.6	87.0	91.0	93.0	86.0	102.0
110.0	88.6	86.0	90.0	92.0	85.0	101.5
115.0	88.6	85.0	89.0	91.0	84.0	101.0
120.0	88.6	84.0	88.0	90.0	83.0	100.7

RUN NUMBER	154.00 (727.00)
AXIAL POSITION OF PRIMARY WPT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	910.000
SECONDARY TEMPERATURE (IN)	522.000
PRIMARY PRESSURE (PSI)	1.000
AREA RATIO	0.744
VELOCITY RATIO	0.375
PRIMARY VELOCITY (FT/SEC)	1171.602
MASS FLOW RATIO	0.075
PRIMARY MASS FLOW (LB/SEC)	0.179
THRUST (LBS)	20.254
ENVIRONMENTAL TEMPERATURE (IN)	528.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	74.000
CALIBRATION FACTOR (IN TO DV/50 CM)	0.016
INSTRUMENTATION NOISE FLOOR (DB)	92.552

JSYC POWER AND SOUND POWER LEVEL FOR MODEL JCT

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.60991E-01	125.0	THRUST	POWER LEVEL(DB)
			10000	152.5
500	5.67854E-03	107.5	20000	155.5
1000	3.11543E-02	114.0	40000	158.5
2000	1.00260E-01	120.0	80000	161.5
4000	1.21332E-01	120.4		
8000	7.19254E-02	116.5		
16000	2.36350E-02	113.7		
31500	7.90012E-03	109.0		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	8000	16000	31500	OVERALL
15.0	88.7	87.1	85.0	87.1	86.3	85.1	84.7	86.1
20.0	79.7	82.9	80.6	82.9	82.2	80.2	79.1	80.1
25.0	85.3	87.7	87.3	87.0	86.4	84.9	82.0	80.4
30.0	84.1	81.0	87.3	87.0	86.2	84.4	82.7	81.2
35.0	83.0	80.4	86.6	87.0	86.1	83.0	82.8	81.1
40.0	81.5	80.1	84.0	86.0	85.4	82.4	82.4	80.0
45.0	80.1	80.2	82.5	85.4	85.4	82.4	81.4	79.6
50.0	78.6	80.2	81.7	83.0	82.8	80.9	81.4	79.6
55.0	77.6	80.2	80.0	82.2	82.1	80.8	82.1	77.3
60.0	75.8	80.0	80.3	80.7	80.4	80.7	82.2	76.0
65.0	74.9	81.4	80.0	80.5	80.5	80.5	81.7	76.0
70.0	74.1	80.3	80.7	80.7	80.7	80.4	81.3	75.0
75.0	70.6	80.1	80.0	81.3	81.3	80.7	80.5	76.4
80.0	73.6	78.1	83.0	80.5	80.7	83.4	80.4	72.1
85.0	73.2	78.7	83.1	80.5	80.4	83.4	79.1	71.2
90.0	72.3	78.0	82.3	80.4	80.4	81.0	79.6	70.3
95.0	71.5	77.5	81.5	80.2	80.2	81.0	79.4	69.4
100.0	70.4	76.4	81.1	80.0	80.4	80.0	79.4	68.7
105.0	70.0	76.0	80.0	80.0	80.2	79.5	79.0	67.4
110.0	69.3	75.4	79.0	80.0	80.4	79.0	78.0	67.3
115.0	69.1	75.3	79.1	80.5	80.9	77.0	79.1	66.7

MODEL THRUST = 70.239 FULL SCALE THRUST = 72804.005

ANGLE	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	8000	16000	31500	OVERALL
15.4	87.31	84.91	79.0	81.03	88.32	79.24	88.81	87.35
15.7	73.71	73.71	77.6	87.28	78.55	76.22	72.19	81.14
16.3	77.41	76.01	80.2	85.64	72.71	78.70	72.04	87.78
16.8	80.71	74.01	82.6	85.68	72.73	78.74	77.07	70.44
17.2	82.71	81.71	82.1	85.18	72.44	78.71	74.15	73.74
17.6	84.31	83.31	83.4	84.44	72.14	72.77	76.17	87.35
18.3	86.71	83.71	85.3	84.56	71.10	77.37	73.41	87.77
18.8	85.71	83.01	82.4	82.44	73.14	78.37	72.37	71.54
19.7	85.41	83.71	82.3	82.44	84.07	78.70	77.37	87.82
20.1	85.41	83.71	81.4	81.54	85.71	78.00	76.22	76.15
20.3	85.41	82.11	81.7	81.40	85.71	77.04	76.44	76.15
20.5	86.11	81.11	80.0	80.44	84.10	72.17	76.15	71.14
20.9	83.41	80.01	79.3	80.44	84.44	71.74	73.04	77.04
21.1	83.41	80.01	79.7	80.44	85.44	72.74	72.74	87.44
21.4	82.71	79.71	77.4	80.10	85.47	72.43	72.74	87.44
21.7	81.71	77.21	76.4	80.77	85.60	80.73	71.64	87.44
21.9	80.11	77.31	76.1	80.14	84.43	80.14	71.14	87.14
22.1	79.41	76.01	75.3	80.44	84.43	80.14	71.14	87.14
22.4	78.41	75.01	74.1	80.14	84.43	80.14	71.14	87.14
22.6	77.71	74.01	73.3	80.14	84.43	80.14	71.14	87.14
22.8	77.71	73.31	72.8	80.14	84.43	80.14	71.14	87.14

NUM NUMBER	=	159.000
AIRAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (H)	=	910.000
SECONDARY TEMPERATURE (H)	=	530.000
PRIMARY PRESSURE RATIO	=	1.000
AREA RATIO	=	9.7MM
VELOCITY RATIO	=	0.726
PRIMARY VELOCITY (FT/SEC)	=	1176.402
MASS FLOW RATIO	=	13.374
PRIMARY MASS FLOW (LB/SEC)	=	162
THRUST (LBS)	=	63.890
ENVIRONMENTAL TEMPERATURE (R)	=	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	=	74.800
CALIBRATION FACTOR (MU TO DV/50 CM)	=	0.035
INSTRUMENTATION NOISE FLOOR (DB)	=	60.372

SYSC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.02545E+00	133.1	THRUST	POWER LEVEL (DB)
			10000	155.0
500	1.20555E-01	120.0	20000	158.2
1000	3.85500E-01	125.0	40000	161.0
2000	5.57555E-01	127.5	80000	164.0
4000	4.53430E-01	126.6		
8000	2.97444E-01	124.7		
16000	1.40801E-01	121.5		
31500	7.01540E-02	118.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	SOUND PRESSURE LEVELS 2000	4000	6000	10000	31500	OVERALL
15.0	100.3	103.5	99.4	94.1	88.7	83.8	81.1	106.6
20.0	99.2	103.8	101.9	95.9	90.6	85.5	82.9	107.2
25.0	98.8	103.7	102.8	97.7	92.4	87.5	84.6	107.6
30.0	97.6	102.5	103.3	99.0	93.9	88.8	86.1	107.5
35.0	95.6	101.3	103.1	100.4	95.5	90.4	88.0	107.3
40.0	93.8	99.6	102.3	100.9	96.8	92.1	89.0	106.8
45.0	92.3	98.0	100.8	100.5	97.5	92.8	89.7	106.0
50.0	91.1	96.5	99.9	100.1	97.6	93.4	90.2	105.4
55.0	89.1	95.3	98.7	98.8	97.7	92.8	89.5	104.6
60.0	88.0	94.4	97.8	98.4	97.3	93.9	90.4	104.6
65.0	87.3	93.0	96.9	97.4	96.7	93.8	90.4	103.2
70.0	87.6	92.6	95.7	96.8	96.6	93.7	90.4	102.7
75.0	86.6	91.5	94.9	95.8	95.4	92.4	89.8	101.8
80.0	86.6	90.7	94.3	95.5	95.1	92.6	89.6	101.4
85.0	85.2	88.3	94.0	94.8	94.4	92.1	89.4	100.9
90.0	84.8	87.5	93.0	94.2	93.8	91.5	88.3	100.0
95.0	84.7	88.7	92.3	93.5	93.3	90.9	87.9	99.5
100.0	84.5	88.4	91.8	93.2	92.8	90.3	87.9	99.1
105.0	83.3	88.0	91.7	92.7	92.3	89.9	87.4	98.7
110.0	82.1	87.7	91.0	92.3	91.8	89.4	86.8	98.2
115.0	82.0	86.8	90.7	91.9	91.6	89.4	86.8	97.9

MODEL THRUST = 63.890 FULL SCALE THRUST = 20000.000

L.	PROB.	OASPL	20.3	OCTAVE BAND 56.5	SOUND PRESSURE LEVELS 113.0	226.1	452.2	904.3	1780.4	3560.8	7065.0	14130.0	28260.0
35.6	71.6 (71.4)	76.6	70.54	73.69	69.36	63.51	56.44	47.31	35.04	11.59	-30.02	-100.66	-209.54
38.7	77.6 (76.7)	79.7	71.85	76.38	74.38	67.89	61.33	53.04	43.27	24.80	-7.42	-61.60	-144.73
40.3	80.7 (80.3)	81.9	73.05	78.17	77.15	71.66	65.39	57.82	49.14	33.62	6.97	-37.45	-105.30
40.0	81.4 (82.0)	83.2	73.58	78.43	79.11	74.34	68.54	61.28	53.68	40.09	17.11	-20.91	-74.71
45.2	85.7 (85.0)	86.2	72.80	78.43	80.11	77.15	71.54	64.96	57.79	45.56	29.14	-8.38	-40.16
43.6	87.2 (86.6)	88.8	71.96	77.77	80.36	76.70	73.95	67.55	60.84	49.41	30.86	1.82	-45.81
41.3	88.0 (87.0)	89.6	71.32	76.91	79.78	76.10	73.58	69.28	62.76	52.28	39.15	7.30	-30.30
38.1	88.0 (87.5)	89.6	70.77	76.15	79.50	76.48	70.45	64.82	58.33	50.42	30.38	12.83	-26.23
31.2	88.0 (87.5)	89.6	65.33	75.50	78.92	76.02	71.16	65.99	58.13	40.93	16.50	-19.90	
32.1	89.7 (87.8)	91.2	69.14	75.10	78.63	76.44	71.27	66.50	57.30	42.85	19.64	-15.00	
35.1	89.0 (87.6)	93.8	68.47	74.07	77.92	76.30	71.12	66.78	58.04	44.02	21.70	-11.59	
36.3	89.7 (87.6)	93.6	69.05	73.09	77.00	76.06	71.20	67.25	59.30	45.73	23.47	-9.70	
32.0	88.5 (86.9)	92.9	68.34	73.19	76.54	75.20	70.37	67.32	59.85	45.50	24.30	-7.00	
23.1	88.4 (86.7)	92.1	68.43	72.58	76.10	75.11	70.32	67.68	59.15	45.88	24.86	-5.97	
25.7	88.0 (86.2)	92.2	67.21	72.19	75.84	74.68	70.00	67.13	58.82	45.79	25.21	-5.29	
28.6	87.2 (85.5)	91.3	68.81	69.47	74.90	75.43	70.18	66.06	57.77	44.77	24.27	-6.16	
25.7	86.0 (84.9)	88.9	68.68	70.66	74.23	75.22	70.45	66.60	57.29	44.26	23.60	-6.43	
23.1	86.7 (84.6)	89.3	68.31	70.19	73.48	74.92	70.43	66.65	57.04	43.93	23.15	-7.67	
29.9	85.4 (83.7)	89.7	64.96	69.64	73.16	74.10	70.30	66.81	58.77	42.95	21.82	-9.55	
26.3	84.6 (82.9)	89.0	63.59	69.14	72.18	73.48	70.55	67.72	59.09	41.40	19.43	-12.34	
25.1	83.9 (82.2)	88.3	63.15	67.90	71.70	72.97	70.97	68.50	60.24	40.10	18.00	-15.10	

RUN NUMBER	156 (729)
AIRIAL POSITION OF PRIMARY WHT, SECONDARY (JMS.)	0.000
PRIMARY TEMPERATURE (H)	910.000
SECONDARY TEMPERATURE (H)	934.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	9.744
VELOCITY RATIO	.880
PRIMARY VELOCITY (FT/SEC)	1174.402
MASS FLOW RATIO	18.345
PRIMARY MASS FLOW (LR/SEC)	.152
THRUST (LBS)	95.174
ENVIRONMENTAL TEMPERATURE (H)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	34.000
CALIBRATION FACTOR (MV TO DV/50 CM)	.079
INSTRUMENTATION NOISE FLOOR (DB)	67.587

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	8.10255E+00	139.1	THRUST	POWER LEVEL (DB)
500	4.98603E-01	127.0	10000	159.3
1000	1.60415E+00	132.1	20000	162.3
2000	2.21350E+00	133.5	40000	165.3
4000	1.66410E+00	132.2	60000	168.3
8000	1.17744E+00	130.7		
16000	6.24713E-01	128.0		
31500	3.20020E-01	125.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	106.8	109.7	108.8	101.0	95.4	91.1	88.1	113.2
20.0	105.6	110.8	108.5	103.1	98.0	93.3	90.1	114.1
25.0	105.1	110.2	109.4	103.6	98.7	94.3	91.5	114.1
30.0	103.1	109.7	109.7	105.3	100.4	95.6	92.2	114.1
35.0	102.4	107.7	109.2	106.2	101.7	97.4	94.3	113.5
40.0	99.7	105.9	108.4	106.5	103.1	98.9	95.7	112.9
45.0	98.8	103.9	106.9	106.0	103.1	99.5	96.5	111.9
50.0	96.4	102.3	105.4	105.2	103.5	99.9	96.4	111.0
55.0	94.4	75.4	104.4	104.7	103.5	100.2	97.1	109.9
60.0	94.1	100.0	103.4	103.9	103.1	100.0	96.4	109.7
65.0	93.2	98.6	102.3	103.0	102.2	99.8	96.7	108.9
70.0	92.3	97.3	101.0	102.0	101.2	99.1	96.8	108.1
75.0	92.2	96.5	100.1	101.4	101.0	99.3	96.5	107.4
80.0	91.7	96.4	99.7	100.8	100.5	98.6	96.0	107.0
85.0	91.1	95.3	99.0	100.1	100.2	98.3	95.7	106.4
90.0	90.3	95.0	98.3	99.6	99.6	97.9	95.2	105.9
95.0	90.1	94.3	97.9	99.1	99.2	97.4	94.9	105.4
100.0	88.8	93.9	97.9	99.2	99.3	97.1	94.0	105.4
105.0	88.8	93.6	97.1	98.6	99.1	97.2	94.5	105.0
110.0	88.0	93.4	97.2	98.5	98.8	96.9	94.2	104.8
115.0	87.6	92.8	96.8	98.4	98.8	96.7	94.0	104.6

MODEL THRUST = 95.174 FULL SCALE THRUST = 95.174

L.	PNDB.	045PL	OCTAVE	BAND	SOUND	LEVELS	LEVELS	LEVELS	LEVELS	LEVELS	LEVELS	LEVELS	LEVELS	LEVELS	LEVELS	LEVELS	LEVELS
			34.5	69.0	130.0	259.0	501.0	1000.0	2000.0	4000.0	8000.0	16000.0	31500.0	63000.0	126000.0	252000.0	504000.0
95.6	78.51	78.51	81.4	75.31	78.09	74.94	68.34	62.93	56.00	45.85	7.95	-40.78	-121.56	-242.60			
85.7	83.51	83.51	84.8	78.55	81.67	79.16	73.12	68.41	62.53	45.35	23.51	-14.09	-75.95	-164.28			
49.3	86.51	86.51	86.6	77.86	82.94	81.90	75.66	69.42	61.64	51.51	33.28	2.28	-38.36	-123.65			
80.0	88.51	88.51	88.0	77.34	83.84	81.76	78.91	72.85	65.26	55.70	39.81	13.14	-30.12	-94.22			
15.2	90.71	90.71	88.6	77.83	83.07	80.46	81.09	75.77	68.19	59.41	46.17	22.54	-15.56	-71.82			
33.6	92.11	91.51	88.8	76.13	82.24	80.71	82.45	78.13	71.73	63.75	50.72	29.31	-5.01	-55.54			
21.3	92.61	91.91	88.6	76.06	81.00	84.01	82.83	79.08	71.47	66.15	54.04	34.31	2.82	-43.37			
54.1	92.91	92.11	88.3	74.30	80.19	83.17	82.79	80.35	74.00	67.69	56.28	37.83	8.55	-34.33			
31.2	92.41	91.61	87.6	72.94	83.93	82.82	82.83	80.98	75.44	69.05	58.19	49.75	17.17	-27.13			
37.1	93.31	92.31	88.0	73.09	78.96	82.26	82.55	81.13	76.30	69.22	58.78	42.12	15.87	-22.41			
44.1	93.21	92.11	87.5	72.62	77.95	81.44	82.94	82.55	78.70	70.15	60.04	43.99	12.77	-17.94			
86.1	93.01	91.81	87.0	71.98	77.01	80.59	81.44	80.65	76.19	70.76	60.91	45.31	20.89	-14.62			
52.0	92.71	91.41	86.5	72.13	76.41	79.93	81.92	80.67	76.84	70.90	61.23	45.98	22.14	-12.49			
23.1	92.41	91.11	86.7	71.87	76.47	79.73	81.91	80.91	76.44	70.64	61.10	46.08	22.64	-11.39			
05.7	92.11	90.71	86.2	71.32	75.81	78.12	79.92	78.54	74.21	68.52	61.05	46.17	22.94	-10.71			
00.0	91.61	90.21	85.7	70.54	75.22	78.44	79.91	78.01	73.73	68.08	60.64	45.80	22.67	-10.84			
06.7	91.11	89.71	85.3	70.29	74.51	77.96	79.91	78.51	74.21	68.52	60.25	45.37	22.16	-11.51			
23.1	90.91	89.61	84.6	68.91	73.47	77.10	78.91	77.54	73.21	67.52	59.91	44.69	21.45	-12.57			
57.0	90.41	89.11	84.0	68.74	73.73	77.00	78.77	77.12	72.81	67.11	59.19	43.93	20.09	-14.44			
94.3	89.81	88.51	83.6	67.71	73.11	77.02	78.71	77.11	72.81	67.11	58.38	42.79	18.34	-17.15			
54.1	89.21	88.01	83.0	66.97	72.14	76.00	77.61	76.06	71.73	66.04	57.37	41.32	16.10	-20.61			

RUN NUMBER	= 157.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= NONE
VELOCITY RATIO	= 1590.001
PRIMARY VELOCITY (FT/SEC)	= NONE
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= 1761
THRUST (LBS)	= 13.003
ENVIRONMENTAL TEMPERATURE (R)	= 590.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 19.000
CALIBRATION FACTOR (MV IN DY/50 CM)	= 100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.52944E+01	141.8	THRUST	POWER LEVEL (DB)
500	1.17172E-02	110.7	10000	170.7
1000	1.05246E-01	120.2	20000	173.7
2000	8.72443E-01	129.4	40000	176.7
4000	3.28741E+00	135.2	80000	179.7
8000	5.78914E+00	137.6		
16000	3.54452E+00	135.5		
31500	1.67894E+00	132.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
(DEG)	500	1000	2000	4000	8000	16000	31500	ALL
15.0	87.8	95.0	98.5	100.2	100.2	99.7	97.8	105.7
20.0	88.5	97.4	103.8	107.0	108.8	107.3	103.7	113.7
25.0	88.3	96.5	103.9	110.4	113.0	112.1	107.9	117.6
30.0	87.1	97.4	106.6	110.9	113.3	111.3	106.5	117.5
35.0	86.5	96.7	106.8	111.9	113.9	110.9	106.1	117.9
40.0	85.1	95.9	106.4	112.2	113.5	110.3	105.1	117.7
45.0	83.2	93.6	105.0	111.8	113.8	109.7	105.4	117.4
50.0	81.6	91.4	102.4	110.9	112.9	109.2	105.1	116.3
55.0	78.6	88.7	99.1	107.6	110.9	108.6	105.3	114.8
60.0	78.1	88.5	98.2	104.9	108.3	107.7	105.2	112.8
65.0	76.9	86.9	93.3	99.7	104.0	104.9	103.9	109.7
70.0	76.9	86.0	92.0	97.7	102.2	103.3	102.0	107.9
75.0	76.9	84.3	91.5	96.7	101.2	102.4	101.1	107.0
80.0	76.9	84.0	90.9	95.9	99.5	100.7	99.4	105.6
85.0	75.6	84.0	90.6	94.4	98.3	99.8	98.3	104.7
90.0	76.9	84.3	90.6	94.6	98.1	99.3	98.5	104.2
95.0	75.6	83.4	90.0	93.8	97.1	98.3	98.0	103.4
100.0	74.8	82.5	88.8	92.8	96.9	98.1	97.3	102.9
105.0	74.8	82.1	88.4	91.9	95.8	97.8	96.8	102.3
110.0	73.1	80.9	87.1	91.7	95.0	97.1	96.2	101.6
115.0	72.1	79.1	86.4	91.1	95.3	97.0	96.0	101.5

MODEL THRUST = 13.003 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	12.7	25.5	51.0	102.0	204.0	408.0	802.2	1606.4	3187.3	6374.5	12749.1
8795.6	85.31 (83.9)	82.8	64.97	72.16	75.65	77.14	76.68	74.66	69.18	57.60	36.48	-2.08	-67.00					
4385.7	95.91 (94.3)	92.4	68.07	77.00	83.34	86.37	87.80	85.29	78.98	64.48	52.78	22.08	-27.60					
3549.3	102.7 (100.7)	98.3	69.75	79.89	87.28	91.65	94.03	92.18	85.79	72.54	63.45	38.67	-2.75					
3000.0	104.1 (101.9)	99.8	69.95	80.30	88.61	93.66	95.76	93.03	86.36	78.92	66.54	45.16	9.67					
2615.2	105.8 (103.5)	101.5	70.54	80.78	90.89	95.84	97.65	92.97	87.58	80.71	69.54	50.99	15.14					
2333.6	106.8 (104.3)	102.4	70.19	80.93	91.00	97.21	98.29	94.47	88.66	82.43	72.14	54.82	26.57					
2121.3	107.5 (105.0)	103.0	69.15	79.44	90.86	97.62	99.43	94.81	89.22	83.67	73.44	57.43	31.47					
1954.1	107.5 (104.7)	102.6	69.20	77.99	88.80	96.51	98.27	95.05	89.79	83.89	74.78	59.76	35.57					
1831.2	107.8 (103.7)	101.6	65.78	75.82	86.24	94.67	97.48	95.24	90.62	84.91	76.19	61.95	36.13					
1732.1	106.3 (102.7)	100.0	65.74	74.20	83.80	91.40	95.60	94.60	91.13	85.56	77.15	63.52	41.77					
1655.1	104.3 (100.2)	97.4	64.99	72.97	81.38	87.70	91.87	92.16	90.34	84.89	76.72	63.57	42.65					
1596.3	102.97 (99.4)	95.9	65.29	72.61	80.37	86.04	90.40	91.09	88.74	83.38	75.38	62.68	42.32					
1552.9	102.41 (98.2)	95.3	65.53	72.93	80.68	85.27	89.56	90.44	88.17	82.87	75.02	62.49	42.68					
1523.1	101.21 (96.9)	94.0	65.70	72.81	79.68	84.62	88.10	89.98	87.20	81.94	74.18	61.84	42.35					
1505.7	100.91 (96.1)	93.3	64.46	72.91	79.48	83.44	87.03	88.11	86.71	81.48	73.77	61.53	42.93					
1500.5	100.01 (95.7)	92.8	65.83	73.23	78.51	83.40	86.78	87.82	85.92	80.69	73.01	60.80	41.57					
1505.7	99.11 (94.8)	92.0	64.46	72.31	78.54	82.61	85.42	86.60	85.34	80.11	72.40	60.17	40.87					
1473.7	98.51 (94.2)	91.3	63.80	71.73	77.51	81.58	85.07	86.34	84.55	79.30	71.54	58.18	40.70					
1472.9	97.41 (93.6)	90.6	63.43	70.71	76.96	80.45	84.23	85.85	83.94	78.50	70.69	58.16	40.35					
1464.1	96.81 (92.8)	89.7	61.45	69.31	75.45	79.94	83.15	84.84	83.01	77.65	69.66	56.86	39.52					

RUN NUMBER	
AIRAL POSITION OF PRIMARY WHT, SECONDARY (INS.)	158.000
PRIMARY TEMPERATURE (IN)	0.000
SECONDARY TEMPERATURE (IN)	910.000
PRIMARY PRESSURE RATIO	547.000
AREA RATIO	2.500
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	0.406
MASS FLOW RATIO	1590.001
PRIMARY MASS FLOW (LB/SEC)	0.640
THRUST (LBS)	1207
ENVIRONMENTAL TEMPERATURE (R)	16.805
ENVIRONMENTAL PRESSURE (IN.HG)	546.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.800
CALIBRATION FACTOR (MV TO DY/50 CM)	10.000
INSTRUMENTATION NOISE FLOOR (DB)	0.099
	68.587

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.30610E+01	141.2	THRUST	POWER LEVEL (DB)
500	3.03385E-02	114.8	10000	168.9
1000	2.16498E-01	123.4	20000	171.9
2000	9.99572E-01	130.0	40000	174.9
4000	2.69901E+00	134.3	80000	177.9
8000	4.54541E+00	138.6		
16000	3.07078E+00	134.9		
31500	1.49940E+00	131.8		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	93.3	99.7	101.8	101.6	101.2	100.3	98.3	100.5
20.0	93.3	100.6	105.3	107.7	109.4	108.4	106.1	114.8
25.0	92.9	101.5	107.0	109.4	111.3	109.7	106.3	116.2
30.0	91.8	101.4	107.8	110.8	112.6	111.0	107.0	117.6
35.0	90.7	100.2	107.3	110.8	112.6	110.5	106.5	117.2
40.0	89.1	98.6	106.4	111.1	112.6	110.1	105.8	117.0
45.0	86.8	96.6	104.6	110.5	112.5	109.4	105.3	116.5
50.0	84.8	94.2	102.4	109.7	111.5	108.3	104.5	115.2
55.0	82.8	91.3	99.6	106.4	109.8	107.9	105.1	113.9
60.0	81.0	89.4	97.2	103.2	106.9	106.5	104.0	111.6
65.0	79.0	87.1	94.2	99.9	104.0	104.7	103.3	109.5
70.0	79.0	86.6	93.0	98.3	102.4	103.2	101.9	108.0
75.0	79.5	86.0	92.0	96.6	100.6	101.4	100.0	106.2
80.0	79.5	85.5	91.4	95.8	99.2	100.1	98.9	105.1
85.0	79.0	85.3	91.2	95.4	98.4	99.2	97.5	104.2
90.0	79.0	85.1	90.5	94.6	97.9	98.5	96.8	103.5
95.0	78.1	84.1	90.1	93.7	96.7	97.7	95.9	102.6
100.0	77.1	83.6	89.0	93.0	96.1	97.0	95.1	101.9
105.0	76.5	83.0	88.5	92.5	95.7	96.5	94.5	101.4
110.0	75.9	82.1	88.1	91.8	95.0	96.0	94.0	100.8
115.0	75.3	81.1	87.4	91.6	94.7	95.8	93.5	100.5

MODEL THRUST = 16.805 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	14.5	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	14.5	1826.2	3623.4	7246.8	14493.5
195.6	85.21 (84.1)	83.7	69.31	75.73	77.79	77.42	76.31	73.67	67.44	54.48	30.85	-11.96	-83.85
185.7	96.01 (84.4)	92.2	71.82	79.05	83.70	85.93	81.18	84.91	79.30	68.85	50.23	17.11	-38.02
149.3	99.91 (88.1)	95.7	73.23	81.86	87.21	89.49	91.02	88.37	82.40	73.30	57.66	30.29	-19.90
100.0	107.9 (100.9)	98.5	73.57	83.12	89.51	92.40	93.89	91.38	85.21	77.06	63.37	39.77	1.11
115.2	106.7 (102.0)	99.6	73.70	83.11	90.23	93.65	95.12	92.25	86.32	78.82	66.51	45.55	11.47
133.6	105.2 (102.9)	100.5	73.09	82.51	90.34	94.06	96.19	93.02	86.96	79.45	68.64	49.62	18.88
121.3	105.7 (103.3)	100.8	71.59	81.39	89.53	95.21	96.90	93.27	87.66	80.95	79.40	52.83	24.61
158.1	105.5 (102.8)	100.2	70.31	79.65	87.88	94.10	96.65	92.67	87.67	81.31	71.33	54.89	28.61
131.2	105.1 (102.0)	99.4	69.90	77.40	85.60	92.36	95.54	93.15	89.00	82.86	73.34	57.76	32.99
122.1	104.0 (100.7)	97.7	67.51	75.89	83.76	94.63	93.17	92.29	88.49	82.51	73.34	58.45	34.86
95.1	102.1 (99.0)	95.4	65.97	74.07	81.16	86.80	90.49	90.89	86.23	82.40	73.50	59.18	35.47
96.3	101.7 (97.0)	94.7	66.20	73.82	80.22	85.48	89.36	89.70	87.22	81.48	72.79	58.03	36.06
92.9	100.2 (96.4)	93.2	66.94	73.46	79.48	84.03	87.83	88.14	85.64	79.97	71.44	57.77	36.32
92.3	99.3 (95.4)	92.3	67.11	73.20	79.05	83.39	86.62	87.11	84.73	79.11	70.69	57.23	36.12
90.7	98.4 (94.6)	91.5	66.79	73.08	78.90	83.06	86.44	86.27	83.49	77.90	69.54	56.19	35.30
90.0	97.0 (94.0)	90.4	66.42	72.89	78.27	82.32	85.63	85.60	82.86	77.27	68.88	55.58	34.75
90.7	96.4 (93.0)	89.9	65.87	71.77	77.51	81.35	84.19	84.75	81.47	75.20	67.12	54.33	33.89
92.3	96.0 (92.7)	89.1	64.75	71.27	76.83	80.44	83.47	83.46	80.48	75.36	66.94	53.48	32.37
92.9	95.2 (91.5)	88.4	64.02	70.56	75.98	79.91	82.93	83.30	80.19	74.52	65.99	52.32	30.86
96.3	94.4 (90.7)	87.6	63.18	69.34	75.36	79.03	82.01	82.54	79.39	73.65	64.96	51.00	29.03
95.1	93.6 (90.0)	86.9	62.23	68.05	74.29	78.49	81.42	82.02	78.47	72.63	63.74	49.37	26.70

RUN NUMBER	= 150.000
AIRIAL POSITION (IF PRIMARY MNT. SECONDARY (IMS.))	= 0.000
PRIMARY TEMPERATURE (IN)	= 910.000
SECONDARY TEMPERATURE (IN)	= 542.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .050
PRIMARY VELOCITY (FT/SEC)	= 1590.001
MASS FLOW RATIO	= 1.175
PRIMARY MASS FLOW (LB/SEC)	= .265
THRUST (LBS)	= 23.174
ENVIRONMENTAL TEMPERATURE (IN)	= 543.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 20.000
CALIBRATION FACTOR (INV TS DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.44940E+01	141.6	THRUST	POWER LEVEL (DB)
500	4.38413E-02	116.2	10000	168.0
1000	3.27149E-01	125.1	20000	171.0
2000	1.71029E+00	132.3	40000	174.0
4000	3.66462E+00	135.6	80000	177.0
8000	4.46483E+00	136.5		
16000	2.89357E+00	134.6		
31500	1.39167E+00	131.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.1	102.1	105.5	105.8	103.3	99.4	94.9	111.6
20.0	94.3	103.5	108.5	110.0	110.1	107.5	102.1	112.7
25.0	94.3	103.6	109.4	111.2	111.3	108.8	104.0	116.9
30.0	93.2	102.8	110.0	111.8	111.4	108.6	104.8	117.1
35.0	92.0	101.5	109.5	112.5	112.4	110.1	106.0	117.8
40.0	90.3	100.3	108.8	112.2	111.7	108.9	104.9	117.1
45.0	87.8	97.9	106.8	111.5	112.0	108.8	104.8	116.6
50.0	86.7	95.5	104.2	109.6	111.5	108.9	105.2	115.7
55.0	83.2	92.3	101.0	106.8	109.7	107.7	104.9	113.9
60.0	82.0	90.3	98.0	104.1	107.2	105.7	103.0	112.0
65.0	81.2	89.0	96.5	101.8	104.9	105.0	103.2	110.2
70.0	81.2	88.5	95.1	100.3	103.7	104.0	102.4	109.1
75.0	80.8	87.8	94.2	98.8	101.9	102.2	100.9	107.4
80.0	80.4	87.4	93.9	98.4	100.8	100.8	99.7	106.4
85.0	80.0	87.2	93.2	97.3	100.0	100.2	98.9	105.6
90.0	80.0	86.5	92.6	96.5	99.2	99.5	97.9	104.8
95.0	79.6	86.1	91.8	95.8	98.6	99.2	97.0	104.7
100.0	78.6	85.4	91.1	94.8	97.5	99.0	96.1	103.5
105.0	78.1	84.9	90.6	94.4	97.1	98.5	95.5	103.0
110.0	76.9	83.4	89.7	93.9	96.6	98.0	95.0	102.5
115.0	76.3	82.5	88.8	93.5	96.3	97.9	94.5	102.2

MODEL THRUST = 23.174 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	17.0	OCTAVE 34.0	BAND 68.1	SOUND 136.2	PRESSURE 272.3	544.6	LEVELS 1072.2	2144.5	4254.9	8509.8	17019.7
5795.6	85.51	84.91	85.0	69.71	76.73	80.07	79.91	76.76	71.25	61.03	46.10	18.90	-29.71 -109.80
4385.7	72.91	81.41	82.0	71.46	80.53	85.50	86.81	86.33	82.06	72.71	60.68	39.37	1.86 -59.49
3549.3	98.61	97.31	95.1	73.25	82.53	88.77	89.87	89.53	85.68	77.68	67.37	49.56	18.62 -31.59
3000.0	100.61	99.11	96.9	73.56	83.20	90.29	91.99	91.18	87.30	80.79	71.61	58.08	29.48 -13.43
2615.7	103.61	101.21	98.7	73.52	83.06	90.98	93.95	93.45	90.21	83.76	75.37	61.45	27.87 .89
2333.6	103.51	101.51	99.1	72.82	82.85	91.35	94.62	93.84	90.13	83.99	76.19	63.44	42.08 4.04
2121.3	104.31	102.21	99.5	71.19	81.28	90.19	94.77	94.92	90.92	85.09	77.72	65.80	49.17 14.95
1958.1	104.71	102.31	99.2	70.75	79.96	88.27	93.52	95.19	91.95	86.43	79.40	68.23	49.82 20.77
1831.2	103.41	101.11	97.9	67.91	77.00	85.61	91.30	93.96	91.29	86.84	80.07	69.42	52.01 24.65
1732.1	102.81	99.71	96.5	67.11	75.49	83.16	89.16	92.02	90.40	86.63	80.07	69.83	53.20 27.17
1655.1	101.71	98.41	95.0	66.78	74.52	82.00	87.21	90.09	89.59	84.32	78.41	70.00	53.98 24.96
1596.3	101.11	97.71	94.3	67.09	74.33	80.47	86.85	89.21	88.95	85.93	79.64	69.48	54.42 30.18
1552.9	99.01	95.21	92.9	66.94	73.85	80.76	84.75	87.72	87.38	84.73	78.53	69.85	53.82 30.17
1523.1	100.81	95.31	92.1	66.71	73.63	80.12	84.57	86.77	86.14	83.74	77.60	68.25	53.26 30.80
1505.7	98.31	94.71	91.4	66.38	73.53	79.57	81.55	84.09	85.73	81.04	76.48	67.69	52.84 24.81
1500.0	97.91	94.01	90.6	66.42	72.93	79.02	82.41	85.26	85.08	82.06	75.98	66.71	51.91 24.86
1505.7	98.41	93.41	90.0	65.94	72.45	78.10	82.10	84.67	84.71	81.14	75.84	65.75	50.90 27.47
1523.1	96.11	92.71	89.2	64.47	71.64	77.30	80.43	83.47	82.00	80.14	74.01	64.65	49.04 24.40
1542.9	95.31	92.11	88.5	64.18	70.94	76.44	80.37	82.92	83.72	79.34	73.14	63.86	47.04 24.74
1596.3	94.41	91.71	87.7	62.74	69.29	75.48	77.45	82.12	82.93	74.53	72.25	62.48	47.02 24.79
1655.1	93.71	90.61	87.0	61.82	68.00	74.77	75.52	81.55	82.50	73.80	71.19	61.20	45.20 20.24

MODEL NUMBER	160.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	0.000
PRIMARY TEMPERATURE (IN)	910.000
SECONDARY TEMPERATURE (IN)	535.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	2.007
VELOCITY RATIO	0.402
PRIMARY VELOCITY (FT/SEC)	1590.001
MASS FLOW RATIO	1.481
PRIMARY MASS FLOW (LB/SEC)	0.265
THRUST (LBS)	20.068
ENVIRONMENTAL TEMPERATURE (IN)	542.000
ENVIRONMENTAL PRESSURE (IN. HG)	29.800
ENVIRONMENTAL HUMIDITY (PLH. CFMT)	25.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.074
INSTRUMENTATION NOISE FLOOR (DB)	67.587

ISYIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	7.47446E+00	138.7	THRUST	POWER LEVEL (DB)
500	2.92436E-02	114.7	10000	105.5
1000	2.03953E-01	123.1	20000	108.6
2000	8.34546E-01	129.2	40000	171.6
4000	1.64382E+00	132.2	80000	174.6
8000	2.49333E+00	134.9		
16000	1.86104E+00	132.2		
31500	6.08512E-01	127.8		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
		1000	2000	4000	8000	16000	ALL
15.0	93.5	100.4	102.6	102.5	103.0	101.7	95.1
20.0	93.4	101.8	105.5	106.3	107.7	106.4	98.8
25.0	92.8	101.9	107.1	108.2	109.5	107.6	101.5
30.0	91.4	100.8	107.0	108.4	109.9	108.7	103.4
35.0	90.1	99.6	106.6	108.5	109.5	108.0	102.7
40.0	88.7	97.5	105.1	108.7	110.6	108.5	102.4
45.0	87.0	95.6	103.3	108.3	109.9	106.7	101.3
50.0	84.7	92.9	101.0	106.0	108.5	105.5	101.2
55.0	82.1	90.7	97.9	103.4	106.1	104.3	100.8
60.0	80.6	87.9	95.5	100.2	103.5	102.9	100.0
65.0	80.0	87.2	93.5	98.0	101.2	101.1	98.9
70.0	79.6	86.1	91.6	95.9	99.3	99.1	97.5
75.0	79.6	85.4	90.9	94.9	98.0	97.9	96.5
80.0	78.9	85.2	90.7	94.0	96.7	96.9	95.5
85.0	78.5	84.5	89.8	93.3	95.7	95.4	94.5
90.0	78.0	83.4	88.9	92.3	94.5	94.5	93.5
95.0	78.5	83.4	88.5	91.8	94.2	93.7	92.8
100.0	77.6	83.1	88.2	91.3	93.6	93.0	92.1
105.0	76.6	82.0	87.1	90.4	92.5	92.7	91.0
110.0	75.5	81.8	86.6	89.8	92.2	91.5	90.8
115.0	75.5	81.1	86.2	89.5	91.8	91.0	89.9

MODEL THRUST = 20.068 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	16.2	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	2035.0	4037.7	8075.5	16150.9
				32.3	64.6	129.2	258.4	516.8	1017.5			
5.6	85.21 (84.5)	83.6	68.63	75.45	77.59	77.29	77.08	73.14	62.26	48.01	22.02	-24.63
5.7	92.71 (91.7)	89.8	70.90	79.27	83.01	83.61	84.40	81.59	73.31	59.79	30.40	2.36
9.3	96.91 (95.6)	93.3	72.20	81.23	86.41	87.38	88.20	85.08	75.97	60.08	49.00	19.27
0.0	99.41 (97.7)	95.3	72.21	81.63	87.40	89.05	90.16	87.98	80.12	71.29	56.39	30.79
5.2	100.41 (98.6)	96.1	72.09	81.57	88.59	90.32	91.04	88.63	81.14	73.06	59.69	38.99
3.6	102.11 (100.2)	97.5	71.67	80.47	89.12	91.50	93.23	90.31	82.26	74.72	62.47	41.89
1.3	102.11 (100.0)	97.3	70.81	79.45	87.11	90.02	93.31	89.43	82.25	75.13	63.72	44.74
0.1	101.81 (99.4)	96.6	69.21	77.48	85.47	90.98	92.72	88.90	83.07	76.27	65.50	47.75
1.7	103.41 (97.9)	95.0	67.23	75.79	83.60	89.30	90.90	88.49	83.42	76.86	66.00	49.80
2.1	97.41 (96.3)	93.3	66.24	73.52	81.09	85.67	88.80	87.61	83.24	76.90	67.03	50.98
5.1	95.71 (94.7)	91.7	65.96	71.15	79.48	83.92	86.90	86.19	82.50	76.37	66.20	51.34
6.3	95.71 (93.4)	90.3	65.92	72.44	77.46	82.15	85.32	84.61	81.02	75.52	66.19	51.16
2.9	95.01 (92.5)	89.4	66.16	71.32	77.47	81.41	84.30	83.59	80.93	74.42	65.76	51.06
3.1	95.31 (91.6)	89.4	65.58	71.89	77.35	80.67	83.12	82.79	80.13	74.17	64.13	50.66
4.7	95.41 (90.7)	87.7	65.27	71.36	76.56	80.00	82.20	81.45	78.22	73.29	64.32	49.98
0.0	95.31 (90.5)	86.6	64.88	70.24	75.75	79.05	81.09	80.53	77.33	72.42	63.47	49.17
5.7	95.41 (94.9)	86.1	64.27	70.26	75.27	78.55	80.72	79.72	76.52	71.60	62.63	48.29
3.1	91.71 (91.1)	85.3	64.30	68.45	73.85	77.41	80.00	78.87	76.70	70.75	61.70	47.23
2.9	95.51 (94.9)	86.2	63.17	68.40	73.86	77.41	79.75	77.84	74.42	69.40	60.24	45.54
6.3	95.71 (94.1)	83.5	61.84	66.16	72.85	76.33	78.19	77.99	74.45	69.45	59.52	44.50
5.1	94.71 (93.2)	82.7	61.53	67.13	72.15	75.61	77.34	76.11	73.64	67.47	57.90	42.43

MUN MINNEN	
ARIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	162.000
PRIMARY TEMPERATURE (N)	0.000
SECONDARY TEMPERATURE (N)	918.000
PRIMARY PRESSURE RATIO	533.000
AREA RATIO	2.500
VELOCITY RATIO	4.050
PRIMARY VELOCITY (FT/SEC)	0.001
MASS FLOW RATIO	1528.001
PRIMARY MASS FLOW (LN/SEC)	3.060
THRUST (LBS)	0.763
ENVIRONMENTAL TEMPERATURE (N)	28.996
ENVIRONMENTAL PRESSURE (IN.HG)	539.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.000
CALIBRATION FACTOR (MV TO DY/50 CM)	25.000
INSTRUMENTATION NOISE FLOOR (DB)	0.063
	69.560

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.56002E+00	136.6	THRUST	POWER LEVEL (DB)
500	3.81689E-02	115.8	10000	162.0
1000	1.93586E-01	122.9	20000	165.0
2000	6.89134E-01	128.4	40000	168.0
4000	1.19891E+00	130.8	80000	171.0
8000	1.53198E+00	131.9		
16000	4.40439E-01	126.3		
31500	2.27793E-01	123.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	8000	16000	31500	ALL
15.0	95.3	98.9	101.9	101.8	101.1	98.8	89.8	107.3
20.0	94.0	101.7	104.8	105.5	105.7	99.3	91.6	111.1
25.0	94.0	102.0	105.8	106.3	106.6	99.3	92.3	111.6
30.0	93.0	100.9	105.7	107.1	107.5	102.9	94.1	112.0
35.0	91.3	99.6	104.6	107.3	104.2	103.6	95.2	113.0
40.0	89.2	97.6	104.4	107.5	105.2	103.7	95.7	112.7
45.0	87.7	95.4	102.7	106.8	107.9	103.3	94.7	112.0
50.0	85.3	93.8	100.1	105.7	105.7	102.9	97.2	110.2
55.0	83.2	90.6	97.4	101.9	104.5	102.3	97.8	108.7
60.0	82.5	88.9	94.8	99.0	101.3	100.2	97.8	108.1
65.0	81.1	87.3	92.9	96.3	99.2	98.7	96.1	104.3
70.0	81.1	86.5	91.5	94.7	97.0	96.7	95.5	102.9
75.0	80.6	85.4	90.7	93.7	95.0	95.1	94.2	101.3
80.0	80.9	85.1	89.7	92.8	94.3	93.6	93.0	100.1
85.0	79.8	84.6	89.4	91.8	93.4	92.7	92.0	99.2
90.0	78.9	84.1	88.5	91.1	92.5	92.3	91.0	98.5
95.0	78.6	83.2	87.6	90.3	91.5	92.0	90.0	97.7
100.0	77.9	82.7	87.3	89.4	91.2	91.5	89.4	97.3
105.0	77.6	82.1	86.5	88.4	90.5	91.0	89.0	96.8
110.0	76.6	81.4	86.0	88.5	89.9	90.1	88.5	96.0
115.0	76.0	80.9	85.3	87.6	89.1	90.0	87.9	95.5

MODEL THRUST = 28.996 FULL SCALE THRUST = 20000.000

L.	PNDA.	OASPL	OCTAVE BAND	SOUND PRESSURE LEVELS	1000	2000	4000	8000	16000	31500	63000	125000	250000	500000	1000000
95.4	81.1 (80.6)	80.2	69.01	64.56	75.43	75.00	73.41	66.62	53.57	37.06	7.11	-45.00	-131.00		
85.7	84.3 (87.9)	86.0	70.11	77.81	80.04	81.22	80.74	72.49	60.27	47.05	23.65	-17.10	-83.07		
49.3	91.2 (90.4)	89.1	71.95	79.91	83.68	83.42	82.70	74.05	64.23	52.96	32.45	-7.17	-54.06		
00.0	94.6 (93.7)	91.5	72.43	80.27	84.49	86.28	86.23	80.25	64.43	50.44	41.48	12.40	-33.01		
15.2	96.7 (95.6)	93.0	71.87	80.19	86.56	87.49	88.17	82.60	71.38	62.28	47.12	21.56	-18.96		
33.6	97.8 (96.5)	93.4	70.75	79.14	85.95	86.45	89.27	83.68	73.31	64.88	51.82	27.89	-4.57		
21.3	98.5 (96.9)	93.9	70.13	77.80	85.10	86.07	89.77	84.29	75.50	67.56	56.69	33.39	-0.03		
50.1	96.2 (96.4)	93.1	68.36	76.06	83.18	87.68	84.31	84.71	76.93	64.37	57.76	37.37	6.29		
31.2	97.4 (95.2)	91.7	68.93	76.25	81.67	85.47	87.73	84.72	74.61	71.16	59.92	40.83	11.57		
32.1	95.8 (93.0)	89.6	66.63	73.03	78.47	83.05	85.08	83.23	78.10	71.15	60.10	42.10	14.32		
55.1	94.4 (91.5)	88.1	65.68	71.82	77.78	80.77	83.36	82.15	77.09	71.04	60.30	43.08	10.33		
66.3	93.3 (90.1)	86.8	66.00	71.35	76.33	78.44	81.55	80.49	77.71	71.00	60.57	43.80	17.91		
52.9	92.3 (89.0)	85.8	65.74	70.87	75.70	78.66	80.37	79.21	76.70	70.08	59.86	43.46	18.20		
23.1	91.3 (87.8)	84.8	66.16	70.42	74.91	77.96	79.26	77.04	75.67	69.12	54.84	42.00	18.00		
05.7	90.5 (87.0)	84.0	65.20	70.02	74.80	77.09	78.38	77.10	74.81	68.31	54.30	42.32	17.72		
00.6	89.7 (86.4)	83.3	64.35	69.53	73.00	76.34	77.56	76.08	73.88	67.30	57.41	41.47	16.96		
05.7	88.9 (85.7)	82.4	64.00	68.44	72.07	75.44	76.57	76.35	72.88	66.37	56.37	40.38	15.79		
73.1	88.2 (85.1)	81.4	63.24	68.03	72.57	74.35	76.07	75.74	72.15	65.60	55.52	38.38	14.56		
52.4	87.4 (84.3)	81.1	62.71	67.20	71.44	73.94	75.22	75.12	71.45	64.83	54.81	38.21	12.95		
96.3	86.4 (83.3)	80.2	61.31	66.74	70.42	73.34	74.64	73.40	70.43	63.41	53.49	36.72	10.43		
55.1	85.4 (82.5)	79.3	60.58	65.07	69.42	72.14	73.71	73.47	69.48	62.42	52.13	34.85	8.12		

NUM MINUTES	= 163.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (M)	= 410.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 0.450
VELOCITY RATIO	= 0.440
PRIMARY VELOCITY (FT/SEC)	= 1590.001
MASS FLOW RATIO	= 5.000
PRIMARY MASS FLOW (LB/SEC)	= 267
THRUST (LBS)	= 56.829
ENVIRONMENTAL TEMPERATURE (M)	= 534.000
ENVIRONMENTAL PRESSURE (IN.MG)	= 29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	= 33.000
CALIBRATION FACTOR (MV TO DV/50 CM)	= 0.004
INSTRUMENTATION NOISE FLOOR (NR)	= 60.507

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.12404E+01	140.5	THRUST	POWER LEVEL (DB)
500	2.55317E-01	124.1	10000	163.0
1000	1.29466E+00	131.1	20000	166.0
2000	3.16974E+00	135.0	40000	169.0
4000	2.84160E+00	134.5	80000	172.0
8000	2.16185E+00	133.3		
16000	1.03971E+00	130.2		
31500	4.72484E-01	126.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	102.4	107.6	108.2	103.8	97.4	91.7	87.3	112.4
20.0	103.5	110.0	111.3	108.0	103.1	95.4	89.8	113.4
25.0	103.0	110.2	112.5	109.3	104.7	97.4	92.3	116.3
30.0	101.6	109.0	112.9	110.2	104.2	99.9	94.2	118.5
35.0	99.5	108.1	112.4	110.7	107.6	102.3	96.7	118.5
40.0	97.2	105.4	111.1	110.9	104.5	103.5	98.0	115.9
45.0	95.2	103.3	108.4	110.0	104.0	104.4	94.6	115.0
50.0	92.1	99.7	106.2	108.5	104.5	104.5	99.6	113.6
55.0	89.8	97.2	103.3	105.4	106.8	103.9	99.5	111.7
60.0	88.9	95.4	101.3	104.0	105.1	103.2	99.7	110.2
65.0	88.3	94.3	99.3	102.2	103.0	101.9	99.1	108.7
70.0	88.6	93.7	98.5	101.4	102.0	100.4	98.4	107.0
75.0	88.0	93.4	97.9	100.2	100.6	99.5	97.9	106.7
80.0	87.5	92.4	96.9	99.5	100.1	98.7	97.6	106.0
85.0	87.2	91.5	96.3	98.7	99.4	98.1	97.1	105.3
90.0	86.4	91.3	95.6	97.9	98.8	97.8	96.3	104.7
95.0	85.4	90.4	95.3	97.4	98.2	97.3	95.7	104.1
100.0	85.5	90.3	94.8	96.5	97.5	97.4	95.3	103.7
105.0	84.8	89.5	94.4	96.2	96.9	97.1	94.7	103.3
110.0	84.1	88.9	93.4	95.8	96.8	97.0	94.4	102.9
115.0	83.1	88.3	93.0	95.3	96.5	97.0	94.3	102.7

MODEL THRUST = 56.829 FULL SCALE THRUST = 20000.000

L.	PROB.	OASPL	26.7	OCTAVE 53.3	BAND 106.6	SOUND 213.2	PRESSURE 426.4	LEVELS 852.9	1679.1	3358.2	6636.2	13326.3	26652.6
795.6	81.21 (81.1)	82.9	73.66	78.32	78.76	73.72	65.86	56.22	42.93	20.67	-19.01	-88.82	-192.20
585.7	87.91 (87.7)	88.2	76.70	83.09	84.31	80.62	74.53	63.82	51.47	33.90	3.14	-48.91	-124.10
549.3	91.51 (91.1)	91.0	77.08	85.17	87.42	83.81	78.29	68.63	59.05	43.25	17.79	-24.90	-90.00
800.0	94.11 (93.6)	92.7	78.06	85.49	89.24	86.24	81.49	73.11	62.79	49.82	27.43	-8.72	-66.71
815.7	96.21 (95.5)	93.7	77.20	85.77	89.94	87.98	84.24	77.13	67.52	55.83	36.28	4.83	-65.10
333.6	97.61 (96.7)	94.1	75.86	84.05	89.04	84.28	86.25	79.61	70.57	59.82	42.05	12.95	-31.27
121.3	98.31 (97.3)	93.9	74.64	82.80	84.30	89.17	87.52	81.57	72.59	62.54	46.11	19.39	-21.00
958.1	98.51 (97.3)	93.1	72.27	79.86	86.30	86.61	87.87	82.61	74.65	65.14	49.75	24.45	-12.74
531.2	97.71 (96.3)	91.7	70.55	77.95	84.02	86.39	84.84	82.72	75.49	66.41	51.82	28.34	-7.01
732.1	97.11 (95.4)	90.6	70.10	76.68	82.46	85.02	85.64	82.55	76.44	67.69	53.72	31.35	-2.24
555.1	96.21 (94.4)	89.4	69.92	75.96	80.90	83.60	84.46	81.67	74.41	67.91	54.43	32.92	1.69
596.3	95.71 (93.8)	88.3	70.53	75.92	80.43	83.14	83.80	81.60	76.20	67.90	54.79	33.94	2.74
552.9	94.91 (92.9)	88.0	70.17	75.60	79.99	82.19	82.68	80.00	74.07	67.71	55.08	34.71	4.28
523.1	94.41 (92.4)	87.5	69.80	74.75	74.16	81.65	81.47	79.47	75.94	67.92	55.28	35.24	5.34
505.7	94.11 (91.9)	86.9	69.62	73.91	74.71	81.03	81.22	78.93	75.59	67.59	55.06	35.22	5.62
500.0	93.41 (91.3)	86.3	68.95	73.43	78.09	80.17	80.66	74.69	74.88	66.89	54.40	34.62	5.13
505.7	92.41 (90.6)	85.7	64.34	72.46	77.86	79.42	80.44	78.14	74.21	66.20	53.67	33.83	4.24
523.1	92.21 (90.1)	85.1	67.44	72.44	77.15	74.71	74.24	78.10	73.73	65.67	53.03	33.00	3.09
552.9	91.41 (89.3)	84.5	67.03	71.44	74.56	74.21	74.53	77.67	72.79	64.63	51.80	31.44	1.31
596.3	90.71 (88.7)	83.9	65.04	70.47	75.29	77.45	74.13	77.23	72.20	63.89	50.79	24.94	-1.24
655.1	90.11 (88.0)	83.2	64.75	69.44	74.57	74.72	77.50	74.45	71.60	63.10	49.43	24.12	-0.12

NUM NUMBER	164.00 (812.00)
AXIAL POSITION OF PRIMARY NMT, SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	910.000
SECONDARY TEMPERATURE (IN)	940.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	9.700
VELOCITY RATIO	0.400
PRIMARY VELOCITY (FT/SEC)	1500.000
MASS FLOW RATIO	5.000
PRIMARY MASS FLOW (LB/SEC)	0.200
THRUST (LBS)	41.000
ENVIRONMENTAL TEMPERATURE (IN)	932.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	31.000
CALIBRATION FACTOR (HV TO GV/K) CM	0.000
INSTRUMENTATION NOISE FLOOR (DB)	69.500

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.31637E+00	138.0	THRUST	POWER LEVEL (DB)
500	5.17181E-02	117.1	10000	101.0
1000	2.26546E-01	123.6	20000	104.0
2000	6.55306E-01	128.2	40000	107.0
4000	1.29773E+00	131.1	80000	110.0
8000	2.06985E+00	133.2		
16000	1.41576E+00	131.5		
31500	5.87475E-01	127.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.4	101.0	101.4	100.6	102.0	101.3	95.5	108.7
20.0	95.0	102.0	103.6	103.9	105.5	104.5	99.2	111.4
25.0	95.0	101.6	104.5	105.1	107.1	105.0	99.0	112.4
30.0	93.0	100.9	105.1	106.3	107.9	105.9	100.3	113.0
35.0	92.4	99.6	105.3	107.4	108.4	106.1	100.8	113.5
40.0	90.1	97.0	104.0	107.4	108.4	105.9	101.4	113.2
45.0	88.5	95.8	102.8	107.4	109.3	106.6	101.9	113.5
50.0	86.0	93.0	100.5	105.5	108.3	106.3	102.1	112.4
55.0	84.0	92.1	98.5	103.2	106.5	105.2	101.8	110.9
60.0	84.1	90.0	96.6	100.8	103.9	103.5	100.0	108.9
65.0	83.8	87.6	95.3	98.8	102.0	101.7	99.5	107.1
70.0	83.2	86.9	94.0	97.3	100.4	99.9	97.4	105.5
75.0	82.9	86.1	93.1	96.5	99.1	98.7	96.6	104.4
80.0	82.5	87.1	92.1	95.3	97.5	97.0	95.5	103.0
85.0	81.0	86.9	91.6	94.4	96.3	96.0	94.6	102.0
90.0	81.0	86.3	90.9	93.7	95.6	95.1	93.7	101.2
95.0	80.4	85.8	90.1	93.1	94.7	94.3	92.4	100.5
100.0	80.6	85.0	89.7	92.1	93.9	93.3	92.2	99.7
105.0	79.5	84.3	88.9	91.5	93.2	92.6	91.5	99.0
110.0	77.9	83.7	88.6	90.8	92.6	91.9	90.7	98.2
115.0	78.3	83.0	87.9	90.3	91.8	91.3	90.3	97.7

MODEL THRUST = 41.996 FULL SCALE THRUST = 20000.000

L.	PROB.	OASPL	22.9	OCTAVE 45.8	BAND 91.6	SOUND 103.3	PRESSURE 306.6	LEVELS 733.2	1443.0	2886.0	5727.0	11455.0	22911.7
95.0	81.6 (81.1)	79.5	68.47	73.04	73.29	72.57	72.18	68.25	55.09	35.63	.60	-40.25	-150.76
95.7	80.1 (81.5)	84.6	70.32	76.49	77.07	77.41	74.56	75.12	63.19	47.73	20.50	-20.28	-100.04
99.3	92.0 (91.1)	87.6	71.32	77.89	80.67	81.03	82.26	79.02	69.30	55.22	32.60	-5.03	-60.09
100.0	94.6 (93.4)	89.0	71.64	78.65	82.79	83.74	84.77	81.08	71.64	60.12	40.54	7.59	-43.41
105.2	96.6 (95.4)	91.5	71.38	78.42	84.16	86.11	86.58	82.75	74.10	63.75	46.30	17.20	-28.00
115.6	97.4 (96.4)	92.3	70.05	77.79	83.92	87.15	87.66	83.43	74.34	66.72	50.02	24.53	-10.12
121.3	99.3 (97.8)	93.5	69.27	76.62	83.49	87.98	89.45	85.56	75.13	69.10	55.30	30.20	-7.02
130.1	99.3 (97.5)	93.0	68.26	75.32	81.46	86.75	89.19	86.07	74.32	70.76	56.94	34.39	-2.20
131.7	98.6 (96.6)	92.0	66.87	74.14	80.52	85.09	88.02	85.72	79.92	71.72	58.60	37.32	6.78
132.1	97.2 (94.0)	90.4	66.70	73.38	79.15	83.14	85.87	84.59	77.63	71.71	59.14	38.85	7.90
155.1	96.0 (93.6)	89.1	66.75	72.57	78.20	81.56	84.41	83.25	75.88	71.10	59.03	39.51	9.51
166.3	94.7 (92.3)	87.0	66.52	72.13	77.25	80.41	83.15	81.79	77.23	64.70	57.00	38.94	10.19
172.9	93.9 (91.4)	87.0	66.37	71.60	76.54	79.47	82.09	80.85	76.79	69.30	57.79	39.29	11.24
213.1	92.7 (90.1)	85.8	66.13	70.81	75.71	78.46	80.71	79.31	75.96	68.53	57.12	38.91	11.34
251.7	91.9 (89.2)	85.0	65.59	70.65	75.31	78.42	79.64	78.50	75.10	67.82	56.50	38.47	11.19
300.0	91.1 (88.4)	84.2	65.40	70.14	74.02	77.31	78.40	77.57	74.24	66.98	55.69	37.72	10.52
367.0	90.2 (87.6)	83.4	64.65	69.53	73.41	76.49	78.02	76.74	73.40	66.12	54.80	36.77	9.47
451.1	89.3 (86.7)	82.5	64.30	68.64	72.74	75.45	77.05	75.88	72.61	65.28	53.96	35.66	8.00
572.9	88.4 (85.8)	81.6	63.64	67.79	72.14	74.44	76.22	74.74	71.67	64.28	52.68	34.18	6.12
706.3	87.3 (84.7)	80.6	61.27	67.07	71.61	73.92	75.18	73.75	70.57	63.03	51.21	32.28	3.53
855.1	86.3 (83.8)	79.7	61.29	66.91	70.74	73.15	74.25	72.77	69.72	62.02	49.87	30.35	1.45

RIJN NUMBER	165.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	510.000
SECONDARY TEMPERATURE (R)	542.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	9.700
VELOCITY RATIO	0.650
PRIMARY VELOCITY (FT/SEC)	1500.000
MASS FLOW RATIO	10.270
PRIMARY MASS FLOW (LB/SEC)	2600
THRUST (LBS)	102.095
ENVIRONMENTAL TEMPERATURE (R)	531.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	33.000
CALIBRATION FACTOR (MV TO DY/50 CM)	1.000
INSTRUMENTATION NOISE FLOOR (DB)	69.579

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	1.65712E+01	142.2	THRUST 10000 POWER LEVEL (DB) 142.1
500	4.27780E-01	126.3	20000 145.1
1000	2.09917E+00	133.2	40000 148.1
2000	3.41250E+00	135.3	80000 171.1
4000	3.51324E+00	135.5	
8000	3.72473E+00	135.7	
16000	2.35132E+00	133.7	
31500	1.04214E+00	130.2	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 16000	31500	OVER ALL
15.0	92.7	111.1	109.5	104.9	102.7	100.5	98.0	114.5
20.0	104.5	112.1	111.1	107.2	105.3	102.7	97.2	119.5
25.0	105.1	111.4	111.4	109.6	107.0	104.0	99.6	117.0
30.0	103.5	110.7	112.1	109.7	108.0	105.5	101.4	117.1
35.0	101.9	109.2	111.9	110.4	109.8	106.5	102.0	117.3
40.0	99.4	106.8	110.5	110.9	110.5	107.7	103.1	116.9
45.0	97.2	104.8	109.3	110.9	110.9	107.8	103.0	116.5
50.0	95.2	102.3	107.1	109.3	110.1	107.6	101.3	115.1
55.0	93.9	100.5	105.5	107.7	109.0	106.8	102.7	114.1
60.0	93.6	100.2	104.3	106.5	107.9	106.2	102.1	113.2
65.0	93.0	98.7	103.2	105.1	106.4	104.7	101.7	111.8
70.0	92.8	98.0	101.7	104.2	105.2	103.9	101.5	110.8
75.0	92.3	96.8	101.0	102.9	104.2	102.9	100.5	109.8
80.0	92.0	96.4	100.4	102.0	103.1	102.1	99.9	109.0
85.0	91.1	95.7	99.3	101.3	102.2	101.0	99.5	108.3
90.0	90.5	95.3	98.9	100.7	101.3	101.0	99.8	107.6
95.0	90.0	94.6	98.3	100.0	101.0	100.6	98.2	107.1
100.0	89.6	94.2	97.8	99.5	100.7	100.7	98.0	106.8
105.0	89.0	93.5	97.3	98.9	100.3	100.6	97.7	106.5
110.0	87.8	92.9	97.0	98.6	100.3	100.4	97.3	106.3
115.0	87.4	92.2	96.5	98.6	100.6	100.6	97.0	106.2

MODEL THRUST = 102.095 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL 35.7	OCTAVE 71.4	BAND 142.9	SOUND 285.8	PRESSURE 571.6	LEVELS 1143.2	2250.4	4501.2	8930.4	17861.9	35723.7
15.6	81.6 (81.5)	82.0	60.36	79.18	77.34	71.90	67.38	59.47	42.55	13.79	-36.27	-118.92
15.7	87.1 (86.9)	86.5	77.16	82.68	81.42	76.88	73.28	66.29	51.43	28.94	-9.48	-72.95
19.3	90.5 (90.2)	88.8	77.54	84.28	84.15	80.26	77.30	70.84	58.84	40.07	0.25	-43.53
10.0	93.3 (92.9)	90.2	77.46	84.62	85.81	82.95	80.13	74.84	64.14	47.81	20.45	-23.78
15.2	95.6 (95.1)	91.5	76.07	84.32	86.86	85.38	83.27	77.49	67.37	52.75	28.51	-18.43
13.6	96.8 (96.2)	92.0	75.54	82.91	86.45	86.56	85.27	80.07	70.50	57.13	35.10	-11
21.3	97.8 (97.1)	92.4	74.16	81.70	86.14	87.69	86.59	81.34	72.02	59.59	39.37	7.21
18.1	97.8 (96.9)	91.7	72.85	79.92	84.58	86.47	86.54	82.14	73.63	61.93	43.03	13.12
11.7	97.5 (96.5)	91.1	72.13	78.71	83.59	85.56	86.07	82.12	74.12	62.98	49.11	16.95
12.1	97.3 (96.2)	90.6	72.35	78.84	82.87	84.84	85.51	82.13	75.29	64.59	47.53	20.72
15.1	96.5 (95.3)	89.7	72.68	77.76	82.16	83.87	84.51	81.20	74.54	64.33	47.79	22.84
16.3	96.0 (94.7)	89.0	72.70	77.35	81.00	83.26	83.68	80.71	75.00	64.90	48.94	24.00
12.9	95.3 (94.0)	88.2	71.43	76.40	80.54	82.21	82.87	80.11	74.36	64.46	48.85	24.50
13.1	94.8 (93.5)	87.6	71.77	76.16	80.68	81.46	82.01	79.49	73.90	64.22	48.86	24.92
15.7	94.4 (93.0)	86.9	71.06	75.61	79.13	80.98	81.23	79.07	73.78	64.09	48.86	25.17
10.0	93.8 (92.4)	86.3	70.47	75.26	78.76	80.34	80.33	78.59	73.19	63.52	48.34	24.73
15.7	93.2 (91.8)	85.4	69.90	74.89	78.12	79.41	80.01	78.15	72.53	62.46	47.61	23.92
13.1	92.8 (91.4)	85.3	69.38	74.03	77.46	78.95	79.55	77.08	72.04	62.32	46.95	23.02
12.9	92.1 (90.8)	84.7	69.61	73.11	76.85	78.24	79.00	77.75	71.53	61.63	46.02	21.68
16.3	91.5 (90.1)	84.3	67.21	72.27	76.32	77.71	78.73	77.67	70.74	60.65	44.68	19.75
15.1	90.8 (89.5)	83.8	66.54	71.30	75.47	77.12	78.00	77.04	69.90	59.55	43.11	17.36

RUN NUMBER	= 166.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1617.254
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .320
THRUST (LBS)	= 18.060
ENVIRONMENTAL TEMPERATURE (R)	= 546.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 23.000
CALIBRATION FACTOR (MV TO DY/50 CM)	= .142
INSTRUMENTATION NOISE FLOOR (DB)	= 72.631

OSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.73721E+01	145.7	THRUST	POWER LEVEL (DB)
500	2.76201E-02	114.4	10000	173.2
1000	2.48639E-01	124.0	20000	176.2
2000	1.56156E+00	131.9	40000	179.2
4000	6.31994E+00	138.0	80000	182.2
8000	1.34770E+01	141.3		
16000	1.04990E+01	140.2		
31500	5.23622E+00	137.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.5	100.0	103.0	105.5	107.0	104.5	101.5	112.0
20.0	92.5	102.0	107.0	111.0	114.5	114.5	111.5	119.5
25.0	92.5	102.5	108.5	113.0	116.5	116.0	112.0	121.1
30.0	91.5	101.5	109.5	114.5	117.5	116.5	113.0	122.0
35.0	89.9	100.5	109.5	115.0	118.0	117.0	113.5	122.5
40.0	89.1	99.0	108.5	115.0	118.0	117.0	113.5	122.4
45.0	88.6	97.0	107.5	114.5	117.5	115.0	111.5	121.3
50.0	84.7	94.5	104.5	112.5	115.0	113.5	109.5	119.6
55.0	81.7	92.5	101.5	110.0	114.0	112.0	108.5	117.8
60.0	80.6	89.5	98.5	106.0	110.0	110.0	108.0	114.9
65.0	80.0	87.9	96.1	102.5	106.5	108.0	106.5	112.4
70.0	79.3	87.1	94.0	100.0	105.0	106.0	105.5	110.3
75.0	79.3	87.1	93.5	98.5	103.5	105.0	104.5	109.6
80.0	79.3	87.1	93.0	98.0	102.0	104.0	103.5	108.6
85.0	79.3	86.5	92.5	97.0	101.0	103.0	102.6	107.6
90.0	78.6	85.9	92.0	96.0	100.0	102.0	101.6	106.7
95.0	78.6	85.5	91.0	95.6	99.5	101.2	100.8	106.0
100.0	77.9	85.2	90.6	95.0	99.0	100.6	100.2	105.4
105.0	77.9	84.0	89.4	94.0	98.5	100.0	99.6	104.8
110.0	76.1	83.1	88.9	93.5	97.5	99.4	99.1	104.1
115.0	76.1	82.7	88.4	93.0	97.5	99.0	98.6	103.8

MODEL THRUST = 18.060 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE		BAND		SOUND		PRESSURE		LEVELS		
			15.0	30.0	60.1	120.2	240.4	480.8	961.6	1893.1	3756.2	7512.4	15024.8
795.6	89.41 (88.4)	86.6	68.21	75.75	78.66	80.95	81.79	77.47	69.99	56.62	32.22	-11.43	-45.51
385.7	100.81 (99.2)	86.2	70.63	80.15	85.08	88.43	91.94	90.57	84.20	73.35	54.15	30.09	-36.40
549.3	104.81 (103.0)	100.0	72.47	82.50	88.44	92.41	95.91	90.30	87.58	78.23	62.12	37.99	-12.30
800.0	107.51 (105.4)	102.6	73.00	82.97	90.92	95.80	98.46	90.52	90.74	82.37	68.29	44.04	4.45
815.2	104.61 (102.7)	104.4	72.57	83.12	92.12	97.42	100.22	90.40	92.91	85.22	72.57	51.04	16.19
335.6	110.81 (108.2)	105.4	72.73	82.62	92.10	98.52	101.26	94.53	94.25	87.07	75.45	53.92	24.46
121.3	110.61 (108.0)	105.3	71.06	81.48	91.93	98.88	101.62	98.46	93.32	86.53	75.69	57.67	24.80
958.1	109.71 (107.0)	104.3	69.82	79.61	89.62	97.57	100.85	97.72	92.24	85.74	75.51	58.64	31.76
831.2	108.71 (105.7)	103.0	67.41	78.26	87.20	95.66	99.45	96.88	91.09	85.71	75.95	59.98	34.45
732.1	107.11 (103.7)	100.6	66.80	78.82	84.67	92.15	95.95	95.39	92.07	86.97	76.58	61.31	37.19
655.1	105.51 (101.8)	98.5	66.60	74.54	82.46	89.95	92.86	93.85	91.08	85.12	76.01	61.28	36.10
594.3	104.11 (100.3)	97.2	66.27	74.03	80.89	86.85	91.60	95.10	90.40	84.62	75.73	61.42	34.95
552.9	103.51 (99.5)	96.3	66.11	74.27	80.67	85.98	90.43	91.45	89.72	83.94	75.21	61.21	34.27
523.1	102.41 (98.7)	94.4	66.08	74.44	80.36	85.23	89.19	90.64	88.94	83.22	74.54	60.80	34.23
505.7	102.01 (97.8)	94.6	66.78	73.94	79.96	84.41	88.19	89.70	88.19	82.49	73.93	60.27	30.90
500.0	101.01 (96.9)	93.6	66.12	73.33	79.45	83.41	87.27	88.75	87.25	81.57	73.03	59.41	30.11
505.7	100.21 (96.1)	92.4	66.08	72.95	78.64	82.92	86.68	87.92	86.40	80.71	72.16	58.68	37.12
523.1	100.51 (95.4)	92.2	65.93	72.87	77.92	82.22	85.96	87.26	85.70	79.97	71.34	57.46	34.98
552.9	99.61 (94.5)	91.4	65.06	71.17	76.96	81.16	84.44	86.40	84.84	79.08	70.35	56.35	34.41
594.3	97.71 (93.6)	90.5	63.08	70.06	75.44	80.33	84.22	85.80	84.01	78.15	69.26	54.95	32.44
655.1	96.01 (92.0)	89.8	62.76	69.24	74.04	78.54	82.49	84.47	83.15	77.18	68.07	53.35	30.16

RUN NUMBER	167.00 (732.00)
AXIAL POSITION OF PRIMARY WPT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	410.000
SECONDARY TEMPERATURE (R)	540.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	1.000
VELOCITY RATIO	0.573
PRIMARY VELOCITY (FT/SEC)	1817.254
MASS FLOW RATIO	1.015
PRIMARY MASS FLOW (LB/SEC)	3.318
THRUST (LBS)	28.412
ENVIRONMENTAL TEMPERATURE (R)	542.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	30.000
CALIBRATION FACTOR (MV TO GV/50 CM)	0.199
INSTRUMENTATION NOISE FLOOR (DB)	75.578

TIC POWER AND SOUND POWER LEVEL FOR MODEL JET

REQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	5.35194E+01	147.3	THRUST 10000 172.8
500	8.39040E-02	119.2	20000 175.8
1000	7.53804E-01	128.8	40000 178.8
2000	4.95412E+00	136.9	80000 181.8
4000	1.18965E+01	140.8	
8000	1.85991E+01	142.7	
16000	1.19316E+01	140.8	
31500	5.30040E+00	137.2	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 2000	SOUND PRESSURE LEVELS	OVERALL
15.0	98.2	105.9	111.0 112.8 113.6 111.7 104.6	118.8
20.0	98.7	107.3	113.1 115.4 117.0 114.5 107.3	121.6
25.0	97.7	107.2	113.7 116.2 117.6 115.5 109.1	122.4
30.0	96.4	107.1	114.2 116.7 118.2 116.6 110.6	123.0
35.0	94.6	105.4	114.3 117.8 118.9 116.9 111.7	123.7
40.0	92.9	103.8	113.1 117.8 119.4 116.9 112.1	123.7
45.0	91.1	101.3	113.8 116.9 119.7 115.6 110.9	123.0
50.0	88.3	98.5	107.9 116.7 117.5 116.9 110.1	121.2
55.0	86.0	95.5	105.0 111.9 115.1 113.5 109.9	119.2
60.0	84.6	93.0	102.2 108.2 111.7 111.1 108.6	116.4
65.0	83.5	91.1	99.2 105.6 109.2 109.4 107.8	114.4
70.0	82.9	90.6	97.6 103.1 107.2 108.0 107.6	113.1
75.0	82.9	90.3	97.1 102.1 105.6 106.5 106.9	111.8
80.0	82.9	89.7	96.6 101.4 104.7 105.1 106.0	110.9
85.0	82.9	89.1	96.0 100.4 103.7 104.4 105.2	110.0
90.0	82.3	88.1	94.7 99.7 102.6 103.2 104.0	109.2
95.0	82.3	88.5	94.2 99.1 101.7 102.7 104.1	108.5
100.0	80.8	88.1	94.0 98.7 101.0 102.0 103.0	107.9
105.0	80.0	86.9	93.1 98.4 100.4 101.5 103.2	107.4
110.0	80.0	85.6	92.4 97.9 100.0 101.6 103.0	107.0
115.0	80.0	85.1	91.9 97.3 99.4 100.7 102.8	106.7

MODEL THRUST = 28.412 FULL SCALE THRUST = 20000.000

PRDD.	OASPL	OCTAVE BAND	SOUND PRESSURE LEVELS
		18.8 37.7 75.4 150.8 301.5 603.1 1197.3 2374.5 4711.0 9422.8 18845.5	
1.0	94.1 93.6 91.3	71.93 79.67 84.49 96.10 86.00 81.58 60.62 52.26 22.57 -30.02 -115.56	
1.2	100.4 99.6 96.7	74.88 83.48 89.21 91.24 92.12 87.76 76.12 63.01 39.81 -7.71 -66.17	
1.3	103.6 102.5 99.5	75.76 85.20 91.64 93.98 94.83 91.10 81.17 70.00 50.65 17.28 -38.27	
1.4	106.2 104.8 101.7	75.88 86.54 93.61 96.01 96.97 94.07 85.01 75.10 58.28 29.62 -18.11	
1.5	109.4 106.8 103.6	75.33 88.09 94.65 96.71 97.01 95.87 84.02 74.00 63.95 38.58 -1.67	
1.6	109.8 106.0 104.6	74.54 89.41 95.72 97.24 97.90 96.90 85.10 74.00 61.77 44.80 8.56	
1.7	110.0 108.1 104.9	73.63 83.82 90.29 92.28 92.73 90.48 81.05 69.19 48.03 14.82	
1.8	109.4 107.3 103.7	71.49 81.64 91.10 93.70 94.21 90.45 80.03 68.58 50.74 19.80	
1.9	108.4 105.9 102.3	69.80 79.23 88.76 91.59 92.49 90.49 80.44 68.42 51.49 24.24	
2.0	109.3 103.4 99.8	68.67 77.32 86.39 89.29 90.51 88.24 78.09 67.02 50.28 28.53	
2.1	109.1 101.9 98.2	68.18 76.78 85.45 88.14 89.50 87.92 77.91 66.01 49.13 28.55	
2.2	104.6 100.9 97.1	67.09 75.57 82.56 85.73 87.41 85.80 76.00 64.40 50.00 30.65	
2.3	104.0 100.0 96.2	66.13 74.53 82.24 85.19 86.48 84.70 74.91 63.93 50.50 31.38	
2.4	103.4 99.3 95.4	66.30 75.12 81.96 84.69 86.60 84.65 74.81 62.32 50.27 31.58	
2.5	102.7 98.5 94.6	66.40 74.22 81.43 84.73 86.78 84.92 74.12 61.65 50.83 31.38	
2.6	102.0 97.4 93.8	67.79 74.63 80.42 83.07 85.75 84.02 73.58 61.12 50.38 31.02	
2.7	101.4 97.3 93.1	67.76 73.93 79.61 82.41 84.86 83.71 72.39 60.62 50.61 30.36	
2.8	100.0 96.5 92.4	66.21 73.47 79.31 81.93 84.01 83.17 71.40 60.48 50.85 29.15	
2.9	99.9 95.4 91.7	65.31 72.15 78.27 81.40 83.40 82.23 70.71 60.04 50.77 27.66	
3.0	99.2 95.1 91.0	64.97 70.47 77.32 80.75 82.75 81.45 70.00 59.25 50.59 25.84	
3.1	94.7 94.6 90.3	64.66 69.76 76.49 81.70 83.65 82.49 69.45 57.84 50.00 23.64	

RUN NUMBER	= 149.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (K)	= 910.000
SECONDARY TEMPERATURE (R)	= 536.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .416
PRIMARY VELOCITY (FT/SEC)	= 1817.250
MASS FLOW RATIO	= 1.378
PRIMARY MASS FLOW (LB/SEC)	= .320
THRUST (LBS)	= 28.420
ENVIRONMENTAL TEMPERATURE (R)	= 542.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 30.000
CALIBRATION FACTOR (MV VS. 0.750 CM)	= .174
INSTRUMENTATION NOISE FLOOR (DB)	= 74.588

JETIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.49023E+01	146.5	THRUST	POWER LEVEL (DB)
500	5.25743E-02	117.2	10000	172.0
1000	4.74280E-01	126.8	20000	175.0
2000	2.77606E+00	134.4	40000	176.0
4000	7.85043E+00	138.9	80000	181.0
8000	1.46033E+01	141.6		
16000	1.26695E+01	141.0		
31500	4.47612E+00	138.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	96.4	105.4	104.3	111.4	115.6	114.8	108.9	129.1
20.0	96.5	105.8	111.2	113.7	117.3	117.1	101.0	121.7
25.0	95.3	105.0	112.2	114.9	117.6	117.5	112.7	122.7
30.0	94.3	104.4	112.5	115.9	118.3	118.0	114.1	123.6
35.0	92.6	103.1	111.9	116.1	118.3	118.1	114.3	123.4
40.0	91.0	100.6	110.6	115.9	117.6	116.6	113.1	122.5
45.0	87.6	98.7	108.4	115.1	117.4	115.1	111.4	121.5
50.0	86.2	96.2	107.2	112.4	115.3	113.3	110.1	119.4
55.0	84.1	93.1	103.0	108.7	112.7	112.0	104.8	117.3
60.0	83.1	90.9	100.0	105.6	109.8	110.2	104.4	115.0
65.0	82.5	90.1	96.8	102.6	107.3	108.5	107.9	113.2
70.0	81.4	89.7	95.6	101.3	105.4	106.6	106.6	111.6
75.0	81.9	89.1	95.6	100.3	104.1	105.6	105.0	110.7
80.0	81.9	88.5	95.0	99.0	102.5	104.0	105.7	109.8
85.0	81.4	88.5	94.3	98.2	101.7	104.6	106.4	109.0
90.0	81.3	87.5	93.4	97.2	100.7	102.6	104.8	108.3
95.0	81.3	87.1	92.6	96.5	100.0	101.8	104.4	107.8
100.0	79.0	86.0	91.4	95.7	99.1	101.0	104.1	107.2
105.0	79.0	85.1	91.1	95.4	98.4	100.2	103.9	106.7
110.0	78.1	84.6	90.3	94.2	97.7	99.4	103.4	106.2
115.0	78.1	84.1	90.1	93.6	97.0	99.0	103.3	105.8

MODEL THRUST = 28.420 FULL SCALE THRUST = 20000.000

L.	PNDR.	0.5 SPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS							
			10.0	17.7	79.4	120.0	301.0	603.1	1177.2	2374.5	4712.0	9424.1	18848.2	
95.6	45.61	95.21	92.0	80.13	82.43	84.09	87.09	84.60	72.97	58.02	28.92	-25.67	-111.28	
95.7	49.01	95.81	96.5	81.93	87.26	89.58	92.45	90.34	64.83	58.72	33.52	-7.81	-77.64	
99.3	104.11	97.81	99.3	83.00	90.12	92.42	96.45	93.12	84.79	73.01	54.26	28.89	-32.46	
99.6	106.81	105.11	101.6	81.84	91.43	95.13	97.13	94.50	84.51	74.00	61.78	33.11	-12.43	
105.2	108.01	106.01	103.0	83.78	92.57	96.48	98.14	97.04	90.58	81.55	64.50	41.13	-1.88	
105.4	108.81	106.61	103.2	82.31	92.53	97.43	98.77	96.73	90.80	82.42	67.47	45.71	6.47	
111.3	104.91	106.71	103.2	81.10	90.85	97.40	99.41	96.16	90.30	82.41	69.64	48.69	19.27	
106.1	107.61	105.41	101.8	79.34	88.32	95.66	98.00	95.15	87.04	82.67	70.45	50.44	14.00	
111.2	106.71	103.41	100.2	76.90	86.72	92.37	96.00	94.40	86.40	82.27	71.83	53.18	24.08	
105.1	105.31	102.11	98.4	75.17	84.19	89.71	93.44	91.10	83.10	83.10	72.19	54.37	26.69	
99.1	104.21	100.71	96.9	74.79	81.34	87.08	91.54	92.01	84.70	82.47	72.35	53.19	24.61	
98.1	103.31	99.81	95.6	74.30	80.71	86.17	90.45	93.80	84.70	82.23	71.87	55.21	24.48	
92.9	102.41	98.81	94.9	74.25	80.80	85.66	89.90	89.17	81.50	81.04	71.74	55.50	30.34	
93.1	102.61	98.31	94.2	73.82	80.36	84.26	87.56	89.02	81.67	81.06	71.05	55.91	31.22	
95.7	103.21	98.81	94.6	73.92	79.76	83.44	86.80	84.03	80.50	83.03	73.10	57.21	32.74	
98.0	101.61	97.21	92.0	73.97	79.86	82.94	86.40	87.11	81.70	81.73	71.62	54.59	31.22	
95.7	101.61	96.61	92.2	73.64	77.40	81.44	84.10	84.31	82.34	80.60	70.44	55.07	34.43	
93.1	101.41	95.81	91.5	71.37	76.24	79.33	82.50	85.11	80.11	80.11	70.30	55.38	29.46	
92.9	99.91	95.41	90.4	70.70	76.11	81.52	84.24	84.34	80.51	74.45	64.80	53.51	24.34	
96.3	94.01	94.51	90.0	67.27	74.27	79.11	82.15	81.54	80.04	74.21	64.85	52.10	24.66	
95.1	94.11	93.61	89.2	66.77	74.27	79.14	82.14	81.54	74.39	67.77	60.61	50.61	24.66	

NUM NUMBER	170.00 (714.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	910.000
SECONDARY TEMPERATURE (IN)	536.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	2.007
VELOCITY RATIO	.571
PRIMARY VELOCITY (FT/SEC)	1817.254
MASS FLOW RATIO	1.464
PRIMARY MASS FLOW (LB/SEC)	.320
THRUST (LBS)	38.296
ENVIRONMENTAL TEMPERATURE (IN)	539.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	31.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.199
INSTRUMENTATION NOISE FLOOR (DB)	75.578

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JLT

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.24979E+01	148.0	THRUST	POWER LEVEL (DB)
500	1.61496E+01	122.1	10000	172.1
1000	1.37769E+00	131.6	20000	175.1
2000	7.16783E+00	138.6	40000	178.1
4000	1.51199E+01	141.2	80000	181.2
8000	1.85142E+01	142.7		
16000	1.20224E+01	140.8		
31500	8.12997E+00	139.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	4000	SOUND PRESSURE LEVELS	8000	16000	31500	OVERALL
15.0	101.7	100.3	112.8	113.6	113.2	104.8	104.1	110.3		
20.0	101.2	110.2	115.0	116.2	116.3	113.1	107.1	121.0		
25.0	101.0	110.5	116.4	116.1	116.2	115.2	109.7	123.6		
30.0	99.0	109.3	116.7	116.0	116.7	116.1	111.0	124.1		
35.0	97.7	107.6	116.3	116.0	116.0	116.5	112.4	124.2		
40.0	96.6	106.1	116.9	116.0	116.0	116.4	112.9	124.1		
45.0	95.5	105.5	115.7	115.0	116.7	115.3	111.4	123.7		
50.0	96.6	109.4	109.4	115.1	117.2	114.6	111.4	121.4		
55.0	98.3	97.1	105.4	111.4	114.3	113.0	111.1	118.9		
60.0	98.8	95.0	102.8	108.1	111.0	111.5	110.8	116.9		
65.0	98.6	94.1	100.4	105.2	107.7	110.0	110.2	115.2		
70.0	98.2	93.6	99.5	103.0	107.2	109.2	109.4	114.3		
75.0	95.4	93.4	98.9	102.0	106.1	108.0	109.4	113.5		
80.0	96.0	93.2	98.3	102.2	105.9	107.1	109.0	112.8		
85.0	96.0	92.5	97.5	101.0	106.4	106.4	108.7	112.0		
90.0	95.1	91.6	96.9	100.7	103.7	105.9	107.9	111.6		
95.0	95.6	90.4	96.3	100.4	102.9	105.3	107.7	111.1		
100.0	94.0	90.6	98.8	100.0	102.3	105.2	107.4	110.3		
105.0	94.1	90.7	95.1	99.1	101.8	104.8	106.8	110.2		
110.0	94.1	89.8	94.6	99.0	101.3	104.3	107.0	110.1		
115.0	92.3	89.7	93.0	98.3	101.0	104.0	107.0	109.4		

MODEL THRUST = 38.296 FULL SCALE THRUST = 40000.000

PHON.	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
100.0	93.11	92.71	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
105.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
110.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
115.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
120.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
125.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
130.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
135.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
140.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
145.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
150.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
155.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
160.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
165.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
170.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
175.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
180.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
185.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
190.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
195.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
200.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
205.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
210.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
215.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
220.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
225.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
230.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
235.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
240.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
245.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
250.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
255.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
260.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
265.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
270.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
275.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
280.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
285.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
290.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
295.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						
300.0	93.11	92.81	90.7	76.19	81.75	85.07	85.41	84.00	77.56	84.00	86.12	12.43	-64.00	-140.78						

RUN NUMBER:	171.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	410.000
SECONDARY TEMPERATURE (IN)	590.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	4.450
VELOCITY RATIO	.672
PRIMARY VELOCITY (FT/SEC)	1417.254
MASS FLOW RATIO	2.000
PRIMARY MASS FLOW (LB/SEC)	.319
THRUST (LBS)	40.600
ENVIRONMENTAL TEMPERATURE (IN)	530.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.900
ENVIRONMENTAL HUMIDITY (PER CENT)	10.000
CALIBRATION FACTOR (INV TO DY/50 CM)	.112
INSTRUMENTATION NOISE FLOOR (DB)	70.579

JETIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.50025E+01	142.6	THRUST	POWER LEVEL (DB)
500	1.00117E-01	120.3	10000	165.9
1000	6.19289E-01	127.9	20000	166.9
2000	2.43949E+00	133.2	40000	171.9
4000	4.02513E+00	136.5	80000	176.0
8000	4.70007E+00	136.7		
16000	2.08041E+00	133.2		
31500	1.30505E+00	131.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	100.0	105.0	107.3	107.1	105.5	102.3	95.8	117.1
20.0	99.4	105.7	108.1	110.0	105.9	101.8	96.0	115.7
25.0	99.0	107.0	111.4	112.4	110.4	102.9	96.0	117.1
30.0	97.8	106.3	112.4	113.5	113.3	104.2	98.1	119.2
35.0	96.0	104.3	111.5	113.4	113.4	109.5	100.4	119.5
40.0	93.1	102.4	110.3	113.0	114.2	110.4	103.3	119.8
45.0	90.7	99.4	108.0	112.5	113.6	109.4	102.9	117.7
50.0	88.3	97.3	106.4	109.3	111.0	109.0	102.3	116.0
55.0	87.0	94.2	100.4	105.5	107.7	105.6	103.4	112.2
60.0	85.4	92.3	98.7	102.7	105.3	105.3	104.5	110.7
65.0	85.1	91.2	95.4	97.9	102.2	102.0	104.4	108.0
70.0	84.6	90.1	95.1	96.5	100.5	101.0	104.1	107.8
75.0	84.5	89.3	94.5	97.4	99.3	100.1	103.1	106.9
80.0	83.6	88.1	93.4	96.3	98.3	99.4	102.1	105.6
85.0	83.3	88.4	93.6	95.8	97.7	98.7	101.1	105.8
90.0	83.3	89.0	92.6	95.0	97.1	98.1	100.3	104.5
95.0	83.0	87.1	91.8	94.1	96.3	97.7	99.7	103.4
100.0	81.4	86.6	91.0	94.3	96.0	97.2	98.9	103.3
105.0	80.6	85.9	90.1	93.6	95.8	96.9	98.4	102.4
110.0	80.1	85.6	89.9	93.3	95.1	96.5	98.1	102.5
115.0	80.1	86.4	89.6	92.0	94.7	96.2	97.6	102.1

MODEL THRUST = 40.590 FULL SCALE THRUST = 20000.000

L	PHON.	OASPL	22.5	OCTAVE 42.5	BAND 62.5	SOUND 100.0	PRESSURE 122.5	LEVELS 142.5	200.0	300.0	400.0	500.0	600.0	700.0	800.0	900.0	1000.0
95.6	85.01	85.31	80.4	72.21	77.15	74.29	74.74	75.00	84.54	85.55	26.30	1.70	-80.37	-193.07			
95.7	91.51	91.11	89.0	74.23	81.25	80.04	80.46	82.15	72.63	81.35	46.10	19.21	-27.04	-100.11			
95.8	95.21	90.61	92.1	75.00	83.47	87.45	88.43	83.01	74.29	84.47	52.05	29.22	-28.29	-100.00			
95.9	98.01	97.91	95.0	75.72	84.14	90.20	91.34	84.34	81.52	89.64	58.28	30.94	-6.35	-60.48			
100.0	100.01	100.01	97.0	75.10	85.34	90.52	91.00	81.07	87.04	72.40	63.00	30.53	17.00	-27.10			
100.1	103.01	101.01	98.3	75.17	82.88	90.31	93.74	93.50	88.04	74.07	69.45	33.24	27.23	-13.05			
100.2	103.11	101.01	97.0	71.04	80.70	88.00	91.22	93.04	88.00	74.35	70.42	35.07	31.93	-10.45			
100.3	101.01	100.01	95.4	69.00	78.68	86.00	90.75	92.06	86.07	74.70	71.31	37.45	35.34	-1.65			
100.4	100.11	98.01	93.5	69.06	74.10	83.00	87.00	89.31	84.07	73.00	73.00	40.41	39.32	7.20			
100.5	99.31	98.01	92.3	64.07	74.07	81.10	85.21	87.00	83.54	75.70	63.27	43.10	42.91	12.91			
100.6	98.01	96.21	90.4	64.07	74.20	79.00	82.00	84.70	81.00	76.20	64.70	42.04	42.04	15.72			
100.7	96.01	95.00	88.0	67.45	75.55	74.65	81.53	83.10	73.03	80.14	74.00	40.00	40.00	17.73			
100.8	98.11	95.11	89.2	68.10	72.40	70.00	80.03	87.00	87.00	74.10	60.00	40.00	40.00	18.91			
100.9	97.01	96.31	89.5	67.04	72.43	71.17	80.10	81.03	81.00	72.10	55.00	40.10	40.10	18.70			
101.0	99.71	93.61	97.8	67.22	72.24	74.00	74.00	81.12	81.10	81.01	70.00	40.10	40.10	18.40			
101.1	98.01	92.01	97.2	67.25	71.53	70.53	74.10	80.57	83.75	81.10	73.01	40.76	40.76	17.00			
101.2	95.01	92.31	96.4	68.00	71.00	73.00	74.10	80.01	80.01	73.10	61.00	40.10	40.10	17.00			
101.3	96.51	91.51	96.1	65.00	70.00	74.74	77.00	74.33	74.00	74.00	72.00	41.00	41.00	15.00			
101.4	93.11	90.01	95.2	60.22	69.13	71.13	71.13	71.13	71.13	71.13	60.13	41.13	41.13	14.13			
101.5	93.11	90.11	95.0	63.51	69.10	73.10	74.11	71.00	70.13	70.13	60.13	40.13	40.13	11.13			
101.6	92.21	89.31	93.0	63.20	67.07	70.00	70.00	77.31	77.00	77.31	60.70	37.23	30.00	0.00			

RUN NUMBER	=	172.00 (736.00)
AXIAL POSITION OF PRIMARY WPT, SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (°F)	=	910.000
SECONDARY TEMPERATURE (°F)	=	250.000
PRIMARY PRESSURE RATIO	=	3.500
AREA RATIO	=	4.854
VELOCITY RATIO	=	.578
PRIMARY VELOCITY (FT/SEC)	=	1917.254
MASS FLOW RATIO	=	4.149
PRIMARY MASS FLOW (LB/SEC)	=	.320
THRUST (LBS)	=	61.379
ENVIRONMENTAL TEMPERATURE (°F)	=	536.500
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	=	22.000
CALIBRATION FACTOR (4V TO DB/50 CM)	=	.120
INSTRUMENTATION NOISE FLOOR (DB)	=	71.547

BUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.31874E+01	143.7	THRUST	POWER LEVEL (DB)
500	3.59019E-01	125.6	10000	165.8
1000	1.98840E+00	133.0	20000	163.8
2000	5.56251E+00	137.5	40000	171.8
4000	5.64330E+00	137.5	80000	174.8
8000	4.27290E+00	136.3		
16000	2.43248E+00	133.9		
31500	2.92862E+00	134.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	6000	16000	31500	OVERALL
15.0	107.3	110.2	111.5	109.2	104.5	100.7	95.0	110.3
20.0	105.2	111.5	113.6	111.3	106.2	99.6	94.1	117.7
25.0	104.0	112.0	115.2	112.6	107.3	99.6	95.5	118.8
30.0	102.4	111.5	115.6	113.7	109.1	101.2	98.4	119.3
35.0	99.7	109.8	115.2	114.6	111.1	103.6	98.2	114.5
40.0	98.0	107.8	113.8	114.3	111.8	105.9	100.3	118.9
45.0	96.1	104.6	111.2	113.2	112.3	107.3	102.4	117.9
50.0	93.4	101.3	107.9	110.9	111.1	107.2	104.6	116.1
55.0	90.7	98.4	104.8	107.8	109.0	107.1	105.8	114.3
60.0	90.5	96.6	102.5	105.5	107.2	106.3	106.8	113.1
65.0	89.8	95.6	100.9	103.2	105.2	105.5	107.4	112.2
70.0	88.5	95.0	99.5	102.3	104.2	104.9	107.3	111.7
75.0	88.3	94.1	98.8	101.3	103.3	104.2	107.0	110.9
80.0	88.5	93.0	97.8	100.9	103.0	103.5	106.2	110.2
85.0	87.6	92.5	96.9	100.4	102.6	103.2	105.8	109.8
90.0	86.6	91.8	96.8	99.7	102.2	103.0	105.3	109.4
95.0	86.6	91.5	96.2	99.4	102.0	102.8	105.0	109.1
100.0	86.1	90.3	95.5	99.0	101.9	102.6	104.9	108.8
105.0	85.0	90.3	95.0	98.7	101.6	102.5	104.6	108.6
110.0	84.6	89.9	94.4	98.3	101.5	102.3	104.5	108.4
115.0	84.0	89.2	94.3	98.0	101.5	102.2	104.3	108.3

MODEL THRUST = 61.379 FULL SCALE THRUST = 20000.000

L.	PRDB.	OASPL	27.7	OCTAVE BAND 55.4	110.8	SOUND PRESSURE LEVELS 221.6	443.2	886.4	1745.0	3490.1	6924.7	13849.5	27699.0
798.4	85.21 (86.0)	86.2	77.66	80.50	81.70	78.76	72.50	64.57	49.51	26.48	-14.46	-84.12	-191.00
805.7	90.87 (96.5)	90.1	78.06	84.24	86.21	83.49	77.23	67.45	55.64	37.48	5.77	-47.68	-129.89
849.3	94.21 (93.8)	93.2	78.71	86.64	89.20	86.81	80.53	70.24	60.42	45.15	18.01	-24.91	-92.02
888.0	96.91 (96.4)	95.1	78.51	87.61	91.60	89.45	83.96	73.88	64.27	50.90	28.26	-9.25	-66.43
913.2	99.11 (98.5)	96.4	77.03	87.09	92.47	91.53	87.28	77.98	68.50	56.36	36.74	3.16	-67.08
933.6	100.31 (99.5)	96.7	76.34	86.08	92.07	92.28	84.13	74.53	64.26	51.19	42.91	13.07	-32.04
971.3	101.31 (100.2)	96.4	75.25	83.70	90.27	92.04	90.60	81.08	70.19	59.86	48.97	21.57	-19.75
990.1	101.11 (99.7)	95.1	73.74	81.10	87.67	90.47	90.07	84.86	74.07	63.30	53.48	27.96	-10.41
1031.2	100.41 (98.7)	93.6	71.09	78.86	85.17	87.98	88.62	85.44	74.17	64.14	56.85	32.79	-3.29
1032.1	100.71 (98.7)	92.6	71.41	77.49	83.16	86.14	87.41	85.26	73.96	62.95	53.96	36.70	2.42
1055.1	101.31 (99.9)	91.4	71.12	76.89	82.15	84.12	85.70	84.92	74.03	64.00	54.94	39.94	7.40
1062.3	101.51 (99.1)	91.5	70.10	76.60	81.07	83.05	85.15	84.71	73.14	63.21	54.14	41.85	10.02
1082.9	101.91 (98.6)	91.0	70.13	75.97	80.49	82.45	84.51	84.31	72.65	63.06	53.06	42.20	11.15
1092.1	100.51 (98.0)	90.5	70.50	75.05	79.73	82.40	84.40	83.42	71.76	62.79	52.27	42.27	11.76
1095.7	100.21 (77.9)	90.2	69.73	74.41	78.94	82.37	84.11	83.62	71.81	62.75	52.43	42.43	12.23
1000.0	99.81 (97.4)	89.9	68.80	73.93	78.84	81.44	83.73	83.44	71.37	62.37	52.11	42.11	12.02
1009.7	97.41 (97.8)	89.5	68.77	73.59	78.26	81.14	83.70	83.76	71.81	61.95	51.63	41.63	11.44
1023.1	94.91 (96.6)	88.1	68.14	72.33	77.43	80.13	82.70	82.44	70.40	61.42	50.90	40.90	10.34
1052.8	98.51 (97.1)	88.7	68.41	72.10	76.41	80.11	82.80	82.57	71.81	60.86	50.40	40.40	9.77
1090.3	91.01 (95.6)	88.2	68.26	71.46	75.97	78.60	82.42	82.11	71.73	60.74	50.34	40.34	9.57
1055.1	97.31 (95.0)	87.7	65.70	70.47	75.52	79.07	82.04	81.60	71.39	60.33	50.49	40.49	9.60

RUN NUMBER	173.000
AIRIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	910.000
SECONDARY TEMPERATURE (R)	953.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	9.784
VELOCITY RATIO	1.423
PRIMARY VELOCITY (FT/SEC)	1017.254
MASS FLOW RATIO	5.420
PRIMARY MASS FLOW (LB/SEC)	322
THRUST (LBS)	59.771
ENVIRONMENTAL TEMPERATURE (R)	538.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	21.000
CALIBRATION FACTOR (INV TO DY750 CM)	112
INSTRUMENTATION NOISE FLOOR (DB)	70.579

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.23389E+01	143.5	THRUST	POWER LEVEL (DB)
500	1.37401E-01	121.4	10000	165.7
1000	6.04649E-01	127.8	20000	168.7
2000	1.94776E+00	132.9	40000	171.7
4000	4.17393E+00	136.2	80000	174.8
9000	4.72270E+00	137.3		
16000	5.00519E+00	137.0		
31500	3.74728E+00	135.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	101.3	105.4	106.5	106.6	108.8	107.8	101.1	114.7
20.0	100.8	105.3	106.2	106.6	111.0	109.9	104.1	116.4
25.0	99.9	106.6	106.9	110.6	112.5	110.8	105.4	117.8
30.0	98.2	105.7	110.3	112.0	113.6	111.3	106.7	118.6
35.0	96.0	103.7	110.2	113.6	113.6	111.6	108.0	119.1
40.0	94.6	102.2	109.2	113.1	114.4	112.2	108.7	119.2
45.0	92.3	100.0	107.2	112.4	114.4	111.9	104.1	118.6
50.0	90.1	97.9	104.5	110.2	113.5	111.4	104.3	117.5
55.0	88.1	95.3	102.2	106.9	111.0	110.3	104.4	115.7
60.0	87.7	94.0	99.9	104.4	108.7	108.5	104.4	113.9
65.0	87.0	93.0	98.6	102.8	104.2	106.9	107.9	112.6
70.0	86.4	92.0	97.3	101.1	104.5	105.3	107.2	111.3
75.0	86.1	91.6	96.5	100.0	103.0	104.6	106.5	110.5
80.0	85.9	91.1	96.1	99.0	101.7	103.5	105.8	109.5
85.0	85.1	90.0	94.9	98.0	100.7	102.4	105.0	108.6
90.0	84.5	89.5	94.2	97.1	99.7	101.3	104.3	107.7
95.0	83.6	88.6	93.8	96.3	98.6	100.4	103.8	107.0
100.0	82.6	88.0	92.6	95.4	97.8	99.6	103.2	106.7
105.0	82.6	87.8	92.1	94.5	97.0	98.9	102.8	105.7
110.0	81.8	87.1	91.5	94.2	96.3	98.2	102.5	105.2
115.0	81.4	86.4	90.8	93.6	95.7	97.7	102.3	104.9

MODEL THRUST = 59.771 FULL SCALE THRUST = 20000.000

L.	PRDB.	OASPL	OCTAVE		BAND		SOUND		PRESSURE		LEVELS		
			27.3	54.7	109.3	218.7	437.3	874.7	1722.0	3444.1	6873.3	13688.9	27333.8
5795.6	86.51	96.21	83.3	71.80	76.37	76.83	76.32	76.97	71.86	55.98	33.22	-7.29	-76.31
4385.7	92.01	91.51	87.6	73.60	78.21	80.48	80.45	82.15	77.93	65.23	47.26	15.90	-37.06
3549.3	96.01	95.31	91.1	74.65	81.36	84.55	84.85	85.82	81.11	71.94	55.94	39.97	-13.47
3000.0	98.91	98.01	93.5	74.48	81.96	86.45	87.84	88.63	84.74	74.82	61.59	39.18	2.88
2615.2	100.91	99.81	95.4	73.43	81.12	87.47	90.72	90.16	86.17	74.36	60.44	46.52	13.73
2333.6	102.51	101.31	95.4	72.99	80.60	87.53	91.21	91.87	87.07	74.83	63.88	51.77	22.10
2121.3	103.11	101.81	96.7	71.53	74.25	86.39	91.34	92.79	88.81	71.61	71.30	54.65	27.48
1958.1	103.21	101.61	96.2	70.08	77.86	84.41	89.93	92.62	89.15	83.00	73.32	57.65	32.35
1831.2	102.21	100.21	94.8	68.61	75.45	82.68	87.20	90.79	88.80	84.05	74.81	59.96	34.10
1732.1	101.81	99.71	93.2	68.70	75.00	80.84	85.22	88.46	87.60	84.77	75.66	61.66	36.92
1655.1	101.71	99.21	92.3	68.47	74.41	80.00	83.96	86.99	86.49	84.89	76.25	62.38	38.89
1596.3	101.31	98.51	91.2	68.10	73.75	78.00	82.57	85.97	85.27	84.65	76.20	62.87	41.69
1552.9	100.51	94.31	90.4	68.10	73.54	78.41	81.79	84.31	83.10	84.30	76.00	62.95	42.26
1523.1	99.41	97.41	89.4	68.03	73.19	78.14	80.48	83.23	83.93	83.46	75.66	62.81	42.66
1505.7	99.21	96.61	88.9	67.35	72.22	77.07	80.94	82.32	82.97	83.17	75.03	62.89	42.14
1500.0	98.41	95.91	88.1	66.82	71.74	76.45	79.13	81.14	81.49	82.55	74.43	61.72	41.64
1504.7	97.41	95.21	87.3	65.47	70.88	75.95	78.24	80.21	80.98	81.94	73.85	61.18	40.95
1523.1	96.41	94.31	86.4	64.75	70.10	74.71	77.30	79.34	80.03	81.23	73.06	60.14	39.83
1557.0	95.11	93.61	85.6	64.48	69.72	73.49	76.25	78.34	79.14	80.48	72.24	59.23	38.94
1594.3	94.41	92.41	84.4	63.44	68.72	72.10	74.44	77.14	78.13	79.42	71.64	58.15	38.04
1654.1	90.41	92.11	84.0	62.47	67.71	70.11	72.41	74.01	75.31	76.24	70.41	54.99	36.05

RUN NUMBER	= 174.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 500.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 9.784
VELOCITY RATIO	= 0.543
PRIMARY VELOCITY (FT/SEC)	= 1017.254
MASS FLOW RATIO	= 0.451
PRIMARY MASS FLOW (LBS/SEC)	= 0.322
THRUST (LBS)	= 107.639
ENVIRONMENTAL TEMPERATURE (R)	= 540.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 10.000
CALIBRATION FACTOR (MV TO DY/50 CM)	= 0.126
INSTRUMENTATION NOISE FLOOR (DB)	= 71.507

MUSIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.9215E+01	144.7	THRUST	POWER LEVEL (DB)
			10000	164.3
500	6.02298E-01	127.0	20000	167.3
1000	2.49831E+00	134.0	40000	170.4
2000	4.72255E+00	136.7	80000	173.4
4000	5.51323E+00	137.4		
8000	6.91778E+00	138.4		
16000	5.53204E+00	137.4		
31500	3.42420E+00	135.4		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	108.0	112.0	110.3	107.6	107.9	108.6	101.1	117.0
20.0	107.1	113.0	112.2	109.6	109.4	108.7	101.9	118.5
25.0	106.4	113.0	113.8	111.1	111.3	109.7	104.8	119.4
30.0	104.4	111.5	114.0	112.0	111.8	110.6	107.0	119.5
35.0	102.7	110.2	113.8	113.5	113.0	111.0	106.9	119.8
40.0	100.7	107.7	112.5	113.8	113.6	110.7	107.4	119.5
45.0	99.4	105.2	110.5	113.0	113.6	111.2	107.5	118.6
50.0	95.3	102.6	108.3	111.3	113.1	111.4	105.5	118.0
55.0	94.0	101.0	106.5	109.4	112.0	110.7	108.3	116.9
60.0	93.6	99.7	104.9	107.6	110.0	109.5	105.1	115.5
65.0	93.4	99.2	103.6	108.1	108.3	108.3	107.5	114.2
70.0	92.9	97.8	102.2	105.7	106.8	107.1	106.4	112.9
75.0	92.1	97.4	101.5	103.9	105.5	106.6	104.4	112.3
80.0	92.1	96.5	100.8	102.9	104.8	105.2	105.3	111.6
85.0	92.1	96.2	100.4	102.1	104.2	105.6	104.9	111.0
90.0	91.3	95.5	99.6	101.6	103.6	104.9	104.2	110.3
95.0	90.2	94.8	98.6	100.9	102.9	104.2	103.7	109.7
100.0	90.2	94.1	98.5	100.4	102.4	103.7	103.1	109.2
105.0	88.7	94.2	98.0	99.4	102.0	103.2	102.4	108.7
110.0	88.5	93.3	97.2	99.7	101.7	102.4	102.2	108.4
115.0	88.3	93.3	97.0	99.2	101.5	102.5	102.0	108.0

MODEL THRUST = 107.639 FULL SCALE THRUST = 20000.000

L.	PMDH.	OASPL	36.7	OCTAVE 73.4	BAND 146.7	SOUND 293.4	PRESSURE 586.9	LEVELS 1173.9	2310.9	4621.8	9170.2	18340.4	36680.8
95.4	84.31	84.21	83.9	79.94	79.86	77.88	74.23	72.20	65.04	46.72	17.30	-33.79	-117.86
105.7	89.61	89.41	87.7	78.63	83.29	82.27	79.05	77.05	71.84	57.34	34.35	-5.05	-69.40
115.7	93.41	93.11	90.6	78.63	85.19	85.78	82.59	81.31	76.08	63.30	44.12	11.67	-40.98
125.0	96.01	95.51	92.0	78.23	85.13	87.53	84.98	83.60	79.39	69.08	52.41	24.51	-20.45
135.2	98.31	97.81	93.6	77.78	85.05	88.55	87.45	86.18	81.53	71.84	58.71	32.01	-7.57
145.6	99.51	98.81	94.1	75.86	83.55	86.21	84.16	82.74	78.24	68.60	58.24	2.60	-4.47
155.7	100.21	99.41	94.2	74.15	81.84	87.92	89.19	89.00	84.40	74.01	63.34	42.73	10.00
165.1	100.61	99.61	93.4	72.69	79.99	85.53	88.31	89.26	85.54	74.32	64.40	47.15	16.76
175.7	100.41	99.31	93.2	71.95	78.92	84.31	86.97	88.66	85.60	74.22	62.87	45.88	21.06
185.1	100.11	98.81	92.1	72.09	78.18	83.28	85.70	87.33	85.07	74.87	68.98	51.60	24.37
195.1	99.81	98.51	91.3	72.26	78.08	82.37	84.63	86.09	84.65	74.00	69.46	52.72	24.57
205.3	99.11	97.71	90.3	72.04	76.95	81.24	83.51	84.66	83.62	74.47	69.19	52.95	27.62
215.7	98.11	97.61	89.8	71.55	76.81	80.85	82.97	83.97	83.47	74.83	69.75	53.47	29.14
225.1	97.41	97.01	89.3	71.72	76.07	80.24	82.15	83.40	83.32	74.04	69.09	53.45	29.15
235.7	96.11	96.61	88.8	71.42	75.91	79.45	81.47	82.93	82.82	74.74	68.88	53.38	29.32
245.0	97.31	96.01	89.2	71.00	75.14	79.20	80.44	82.35	82.14	74.14	68.30	52.46	28.87
255.7	96.51	95.71	87.5	69.85	74.84	79.43	80.24	81.65	81.41	72.46	67.70	52.20	28.16
265.1	95.71	94.61	86.9	69.75	73.69	77.46	79.64	81.03	80.74	72.83	68.89	51.94	28.44
275.7	95.01	93.91	86.2	69.16	73.43	77.33	79.41	80.82	80.64	72.07	68.44	50.85	28.33
285.1	94.41	93.21	85.6	68.55	72.84	76.31	78.47	79.87	79.67	71.24	68.49	49.74	27.41
295.1	92.41	92.41	84.9	67.13	72.12	75.72	77.72	79.29	79.40	70.41	63.06	47.23	26.04

RUN NUMBER	175.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	NONE
PRIMARY TEMPERATURE (R)	1290.000
SECONDARY TEMPERATURE (R)	NONE
PRIMARY PRESSURE (PSI)	1.000
AREA RATIO	NONE
VELOCITY RATIO	NONE
PRIMARY VELOCITY (FT/SEC)	1400.000
MASS FLOW RATIO	NONE
PRIMARY MASS FLOW (LH/SEC)	1.00
THRUST (LBS)	6.090
ENVIRONMENTAL TEMPERATURE (R)	560.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.000
ENVIRONMENTAL HUMIDITY (PER CENT)	12.000
CALIBRATION FACTOR (LV TO DY/SQ CM)	0.040
INSTRUMENTATION NOISE FLOOR (DB)	61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	1.09350E+00	132.0		
500	4.07741E-03	106.1	10000	164.4
1000	3.56473E-02	115.5	20000	167.9
2000	2.50039E-01	124.0	40000	170.9
4000	6.97393E-01	128.4	80000	175.0
8000	6.36724E-01	128.0		
16000	1.93148E-01	122.9		
31500	7.64751E-02	118.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
		1000	2000	4000	6000	10000	ALL
15.0	84.5	93.3	99.6	102.6	102.3	87.3	86.6
20.0	84.3	93.8	101.3	104.5	104.3	95.8	88.2
25.0	83.5	93.6	101.9	105.5	105.1	97.1	90.1
30.0	83.0	93.1	101.7	105.6	104.3	96.6	90.1
35.0	81.8	91.9	101.0	105.7	104.1	96.5	90.6
40.0	80.4	90.2	99.9	104.9	103.5	96.4	91.3
45.0	78.7	88.7	98.2	103.5	102.9	97.2	91.9
50.0	77.6	86.4	95.5	101.3	101.5	97.3	92.0
55.0	74.9	84.1	93.2	98.4	94.2	96.5	92.5
60.0	74.0	82.2	90.5	95.5	97.6	95.8	92.4
65.0	72.0	80.3	88.2	93.5	95.8	94.4	91.6
70.0	71.1	79.2	86.2	91.7	94.1	92.9	90.2
75.0	70.6	77.6	85.2	90.2	92.7	91.8	89.2
80.0	70.1	77.1	84.5	89.6	91.9	90.5	88.0
85.0	70.1	77.4	84.1	88.4	90.8	89.5	87.6
90.0	70.1	77.1	83.5	87.7	89.9	88.4	86.2
95.0	70.1	76.7	82.6	86.4	88.6	87.8	84.7
100.0	69.5	76.0	82.3	86.4	88.5	87.1	84.5
105.0	68.3	75.4	81.3	85.2	87.5	86.1	84.6
110.0	67.6	75.1	81.3	85.0	87.0	85.9	84.5
115.0	66.8	74.1	80.8	84.6	86.6	84.7	84.2

MODEL THRUST = 6.090 FULL SCALE THRUST = 20000.000

L.	PAOB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	2101.2	4362.4	8724.4
			8.7	17.4	34.9	69.8	139.6	279.2	559.7	1119.3
5795.6	85.4 (84.4)	87.0	64.94	73.76	79.99	87.41	82.39	66.52	63.71	55.28
4385.7	91.0 (89.8)	91.5	67.16	76.72	84.13	91.32	86.87	77.73	64.56	61.45
3549.3	94.2 (92.7)	94.2	68.22	78.30	86.60	94.13	89.63	81.07	72.80	66.47
3000.0	95.5 (93.8)	95.4	69.20	79.33	87.87	91.73	90.33	82.12	74.49	68.08
2615.2	96.8 (94.9)	96.4	69.22	79.31	88.41	93.02	91.28	83.28	76.44	70.99
2333.6	97.6 (95.3)	96.7	69.17	79.01	88.27	93.20	91.68	84.29	78.33	73.14
2121.3	94.2 (95.6)	96.6	67.86	77.90	87.33	92.66	91.90	85.91	79.80	74.90
1958.1	94.1 (95.1)	95.6	67.48	78.30	85.33	91.13	91.21	86.74	81.32	76.49
1831.2	97.6 (94.2)	94.2	65.41	74.54	83.02	88.84	89.57	86.59	81.91	77.19
1737.1	97.1 (93.5)	92.9	64.91	73.16	81.49	86.41	88.41	86.36	82.31	77.67
1645.1	96.5 (92.4)	91.7	63.37	71.65	79.41	84.44	87.02	85.44	82.02	77.47
1546.1	95.2 (91.1)	90.4	62.17	70.43	77.44	83.24	85.66	84.19	80.97	76.47
1557.9	94.5 (90.3)	89.4	62.51	69.47	77.12	82.34	84.51	83.17	80.19	75.73
1573.1	93.5 (89.3)	88.7	62.15	69.20	76.59	81.64	83.48	82.26	79.18	74.55
1505.7	92.9 (88.5)	87.9	62.25	69.55	76.31	80.44	82.66	81.30	78.04	74.53
1500.0	91.7 (87.4)	86.9	62.28	69.13	75.61	79.44	81.97	81.28	77.53	73.13
1504.7	91.2 (86.7)	86.1	62.25	68.77	74.74	78.74	81.25	80.64	77.64	73.23
1523.1	90.1 (85.8)	85.5	61.50	68.47	74.37	78.41	80.47	79.41	76.00	71.57
1557.9	89.2 (84.7)	84.6	60.18	67.14	73.20	77.04	79.24	77.72	75.44	71.19
1594.3	88.6 (84.2)	83.9	59.24	66.14	72.96	76.44	78.54	77.23	75.21	70.71
1655.1	87.0 (82.7)	82.8	58.17	65.44	72.09	75.93	77.82	76.71	73.44	69.00

RUN NUMBER	174.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (°F)	1200.000
SECONDARY TEMPERATURE (°F)	590.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	1.000
VELOCITY RATIO	0.370
PRIMARY VELOCITY (FT/SEC)	3400.051
MASS FLOW RATIO	1.011
PRIMARY MASS FLOW (LBS/SEC)	1.140
THRUST (LBS)	8.345
ENVIRONMENTAL TEMPERATURE (°F)	500.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	10.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.035
INSTRUMENTATION NOISE FLOOR (DB)	60.572

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.69980E+00	132.3	THRUST	POWER LEVEL (DB)
500	4.04632E-03	106.1	10000	163.1
1000	4.11049E-02	116.1	20000	166.1
2000	2.77463E-01	124.4	40000	169.1
4000	6.28366E-01	128.0	80000	172.1
8000	5.01157E-01	127.0		
16000	1.76619E-01	122.5		
31500	6.70399E-02	118.3		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	79.8	94.2	100.1	101.9	99.7	91.3	83.1	105.9
20.0	84.0	94.9	101.5	103.8	101.4	93.1	85.2	107.7
25.0	84.2	94.0	102.3	104.8	102.7	94.7	86.8	108.5
30.0	83.6	93.7	102.1	105.0	102.6	94.2	85.2	108.6
35.0	82.3	92.5	101.5	105.0	102.6	95.5	89.5	108.5
40.0	80.4	90.8	100.2	104.5	102.6	96.2	90.7	108.0
45.0	79.0	89.2	98.4	103.1	102.4	97.1	92.1	107.2
50.0	76.8	87.2	96.5	100.8	100.9	96.8	92.4	105.6
55.0	75.1	84.6	93.5	98.1	99.2	96.7	92.7	103.8
60.0	73.9	82.4	91.1	95.9	97.7	95.7	91.8	102.8
65.0	71.8	80.9	88.7	93.8	96.0	94.5	91.2	100.6
70.0	71.4	78.9	86.9	92.0	94.4	93.0	89.9	99.0
75.0	71.0	78.0	85.6	90.8	92.8	91.3	88.3	97.4
80.0	69.6	77.3	84.7	89.8	91.9	90.6	88.2	96.7
85.0	70.1	77.1	84.3	89.0	91.1	89.3	86.5	95.7
90.0	69.1	76.9	83.8	88.1	90.2	88.3	85.9	94.8
95.0	69.6	76.4	82.9	87.4	89.2	87.5	85.1	94.0
100.0	69.6	76.4	82.2	86.5	88.5	86.9	84.1	93.3
105.0	68.5	75.3	81.9	86.0	87.7	85.8	83.5	92.5
110.0	67.9	74.4	81.3	85.1	86.9	84.5	82.7	91.8
115.0	67.9	73.5	80.5	84.8	85.6	84.6	82.6	91.4

MODEL THRUST = 8.365 FULL SCALE THRUST = 20000.000

L.	PND8.	OASPL	OCTAVE 10.2	BAND 20.5	SOUND 40.9	PRESSURE 81.8	LEVELS 163.6	327.2	644.2	1289.5	2556.5	5112.9	10225.9
1795.6	82.7 (81.9)	84.8	58.88	73.29	74.10	80.83	78.27	68.87	57.96	48.36	31.01	-1.06	-57.00
1845.7	87.7 (86.7)	87.0	60.32	76.44	83.23	85.21	82.51	73.47	63.64	55.64	41.78	18.78	-26.24
1849.2	91.2 (89.9)	91.7	67.51	77.36	85.60	84.00	85.69	77.11	67.51	60.47	48.67	27.87	-7.55
1000.0	93.1 (91.6)	93.3	68.38	78.52	86.92	89.73	87.11	78.84	70.79	64.38	53.95	35.90	5.49
1615.2	94.7 (92.9)	94.3	68.25	78.53	87.53	91.92	86.32	80.22	73.58	67.60	54.12	42.80	15.11
1335.6	96.0 (93.9)	95.9	67.39	77.77	87.14	91.42	89.39	82.56	75.99	70.33	61.55	48.84	22.53
1211.3	97.0 (94.5)	94.9	66.78	77.05	86.24	90.90	90.04	84.39	78.36	72.95	64.69	51.05	24.67
1958.1	96.8 (93.9)	93.9	65.32	75.73	85.04	89.27	86.24	84.83	79.49	74.26	66.41	53.59	32.70
1831.7	96.8 (93.6)	92.7	64.19	73.86	82.61	87.16	84.09	85.28	80.41	75.33	67.79	55.61	35.84
1732.1	96.0 (92.6)	91.6	63.51	71.47	80.61	85.40	87.15	84.45	80.08	75.11	67.82	56.13	37.31
1655.1	95.2 (91.6)	93.4	61.81	70.88	77.66	83.73	85.52	84.00	79.98	75.09	68.80	56.69	34.57
1566.3	94.1 (90.3)	93.1	61.72	69.22	77.19	82.25	84.56	82.86	79.03	74.22	67.26	56.25	34.67
1552.9	92.7 (88.9)	87.9	61.54	68.44	76.09	81.29	83.18	81.39	77.67	72.90	66.66	55.27	34.04
1523.1	92.2 (88.3)	87.3	60.29	66.00	75.34	80.45	82.46	80.84	77.76	73.03	66.25	55.61	34.70
1505.7	91.0 (87.1)	86.4	60.49	67.44	75.11	79.73	81.73	79.47	76.21	71.49	64.76	54.21	37.46
1500.0	90.2 (86.3)	85.6	59.90	67.44	74.47	78.45	80.45	78.75	75.61	70.90	64.19	53.66	36.96
1504.7	89.3 (85.3)	84.7	60.39	67.14	73.66	78.11	79.86	77.84	74.74	70.03	63.30	52.75	35.99
1525.1	88.5 (84.6)	83.4	60.29	67.06	72.48	77.15	78.06	77.16	73.72	68.98	62.21	51.57	36.46
1552.9	87.4 (83.4)	82.9	59.04	65.44	72.42	76.47	78.05	75.94	72.84	68.69	61.25	50.44	33.27
1596.3	86.1 (82.1)	81.8	58.20	64.72	71.57	75.32	77.35	74.37	71.84	67.05	60.09	49.09	31.40
1655.1	85.5 (81.6)	81.2	57.44	63.42	70.43	74.71	76.66	74.17	71.32	66.43	59.33	48.03	29.91

RIM NUMBER	= 177.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (IN)	= 1220.000
SECONDARY TEMPERATURE (RI)	= 503.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 1.000
VELOCITY RATIO	= 0.714
PRIMARY VELOCITY (FT/SEC)	= 1262.112
MASS FLOW RATIO	= 1.800
PRIMARY MASS FLOW (LB/SEC)	= 134
THRUST (LBS)	= 13.370
ENVIRONMENTAL TEMPERATURE (RI)	= 553.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 16.000
CALIBRATION FACTOR (MV TO DY/SU CM)	= 0.040
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JKT

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.04421E+00	133.1	THRUST	POWER LEVEL (DB)
500	6.63147E-03	108.2	10000	161.8
1000	5.74024E-02	117.6	20000	164.9
2000	3.50083E-01	125.4	40000	167.9
4000	7.50591E-01	128.8	80000	170.9
8000	5.92466E-01	127.7		
16000	2.01644E-01	123.0		
31500	7.73061E-02	118.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	87.3	95.6	101.0	102.7	100.6	92.7	85.1	106.9
20.0	85.1	96.2	102.8	104.7	102.9	94.6	86.8	108.8
25.0	86.7	96.1	103.4	105.4	103.5	95.4	88.1	109.5
30.0	84.9	94.9	103.2	105.8	103.6	96.0	89.1	109.5
35.0	84.1	93.6	102.5	106.0	103.8	96.5	90.1	109.5
40.0	82.5	92.4	101.3	105.4	103.4	97.0	91.6	109.0
45.0	80.6	90.5	99.2	103.7	102.7	97.4	92.6	107.4
50.0	79.1	88.3	96.9	101.3	101.1	97.4	93.0	106.0
55.0	77.4	86.3	94.5	98.8	99.9	97.1	93.2	104.4
60.0	75.2	83.8	91.4	96.4	97.9	96.0	92.5	102.5
65.0	74.0	82.1	89.4	94.0	96.2	94.8	91.3	100.9
70.0	73.2	80.5	87.8	92.4	94.3	92.6	90.3	99.1
75.0	72.4	79.4	86.6	91.1	93.2	91.7	89.0	97.9
80.0	72.0	79.2	86.1	90.5	92.0	90.6	88.1	97.0
85.0	72.0	78.8	85.5	89.4	91.3	89.7	87.0	96.1
90.0	72.0	77.9	84.5	88.4	90.3	88.6	86.3	95.2
95.0	72.0	77.9	84.0	87.4	89.1	87.4	85.3	94.1
100.0	70.6	77.4	83.5	87.0	88.7	87.0	84.8	93.7
105.0	70.1	77.1	82.6	86.2	87.9	86.1	84.1	92.9
110.0	69.5	76.0	82.5	86.1	87.7	86.0	84.1	92.7
115.0	68.9	75.1	82.5	86.0	87.3	85.5	83.9	92.4

MODEL THRUST = 13.370 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	12.9	25.9	51.7	103.4	206.8	413.7	814.5	1628.9	3232.0	6464.0	12927.9
8796.6	83.11	82.41	83.6	64.33	72.59	77.96	79.49	76.44	67.57	56.32	44.59	23.22	-15.79	-92.16				
4388.7	88.11	87.21	88.0	64.55	75.64	82.23	83.96	81.77	72.41	61.64	52.04	35.14	4.89	-46.07				
3549.3	91.21	90.11	90.6	67.97	77.42	84.67	86.77	84.38	75.35	65.82	57.40	43.23	18.18	-23.64				
3000.0	93.11	91.81	92.1	67.65	77.69	85.95	88.42	86.02	77.58	68.81	61.29	48.78	27.15	-6.66				
2615.2	94.81	93.21	93.3	68.02	77.53	86.42	89.88	87.39	79.41	71.36	64.42	53.13	33.89	2.29				
2333.6	95.91	94.01	93.7	67.47	77.33	86.21	90.25	88.09	81.05	74.14	67.63	57.23	39.75	11.21				
2121.3	96.41	94.21	93.3	66.42	76.30	84.94	89.44	88.18	82.75	76.20	70.01	60.28	44.10	-17.91				
1980.1	96.11	93.51	92.2	65.53	74.76	83.34	87.69	87.36	83.15	77.53	71.58	62.37	47.21	22.79				
1831.2	95.81	92.91	91.2	64.42	73.37	81.58	85.76	86.70	83.41	78.37	72.61	63.81	49.43	26.40				
1732.1	94.91	91.71	89.8	62.78	71.30	78.93	83.89	85.19	82.88	78.29	72.68	64.19	50.43	28.49				
1655.1	94.01	90.71	88.5	61.89	69.99	77.35	81.87	83.95	82.14	77.54	72.09	63.84	50.56	29.46				
1596.3	92.71	89.11	87.1	61.48	68.72	75.68	80.62	82.36	80.27	76.95	71.55	63.49	50.57	30.11				
1557.9	91.81	88.21	86.1	60.93	67.85	75.05	79.50	81.48	79.56	75.90	70.56	62.63	49.99	30.00				
1523.1	91.01	87.41	85.4	60.67	67.82	74.72	79.05	80.43	78.45	75.22	69.93	62.10	49.64	29.98				
1505.7	90.21	86.61	84.7	60.77	67.50	74.19	78.10	79.84	77.92	74.25	68.98	61.71	48.85	29.39				
1500.0	89.31	85.61	83.7	60.81	66.65	73.29	77.16	78.87	76.86	73.61	68.35	60.60	48.28	28.88				
1505.7	88.11	84.41	82.7	60.77	66.61	72.76	76.12	77.69	75.56	72.53	67.27	59.69	47.16	27.67				
1523.1	87.41	83.81	82.1	59.76	66.03	72.12	75.59	77.12	75.02	71.43	66.64	58.81	46.34	26.69				
1557.9	86.51	82.81	81.1	58.57	65.61	71.08	74.60	76.20	74.04	71.03	65.70	57.77	45.13	25.14				
1596.3	86.11	82.41	80.7	57.77	64.28	70.69	74.27	75.77	73.66	70.75	65.35	57.29	44.37	23.91				
1655.1	85.31	81.61	80.1	56.95	63.05	70.34	73.85	74.99	72.82	70.19	64.70	56.46	43.17	22.07				

ROW NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 174.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 1220.000
PRIMARY PRESSURE RATIO	= 563.000
AREA RATIO	= 1.000
VELOCITY RATIO	= 1.000
PRIMARY VELOCITY (FT/SEC)	= 740
MASS FLOW RATIO	= 1362.119
PRIMARY MASS FLOW (LB/SEC)	= 2.026
THRUST (LBS)	= 137
ENVIRONMENTAL TEMPERATURE (R)	= 14.919
ENVIRONMENTAL PRESSURE (IN.HG)	= 527.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.800
CALIBRATION FACTOR (MV Yr. DY/50 CM)	= 20.000
INSTRUMENTATION NOISE FLOOR (DB)	= .056
	= 64.590

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JLT

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.86371E+00	136.9	THRUST	POWER LEVEL (DB)
500	1.45703E-02	111.6	1000J	165.1
1000	1.17374E-01	120.7	2000J	165.1
2000	7.47764E-01	128.7	4000J	171.2
4000	1.56432E+00	131.9	8000J	174.2
8000	1.25635E+00	131.0		
16000	8.65000E-01	129.4		
31500	2.97725E-01	124.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.1	98.1	102.9	103.9	100.0	95.6	91.2	108.2
20.0	99.6	96.9	105.2	107.1	103.4	99.2	94.0	111.0
25.0	99.8	99.1	105.8	107.5	104.5	99.9	94.6	111.6
30.0	98.7	97.9	106.3	108.2	105.2	101.0	95.9	112.2
35.0	97.2	96.9	106.0	108.6	105.8	102.3	97.3	112.5
40.0	95.5	95.4	104.9	106.6	106.3	103.1	94.4	112.5
45.0	94.0	93.4	102.6	107.3	106.1	103.5	94.8	111.6
50.0	91.7	91.3	100.7	105.1	105.4	103.5	98.5	110.4
55.0	79.6	89.2	98.2	102.9	103.7	103.3	98.7	109.0
60.0	78.9	86.7	95.0	100.4	102.8	102.2	97.6	107.5
65.0	77.3	85.4	93.2	98.4	101.1	100.9	96.4	105.9
70.0	76.8	84.2	91.3	96.7	99.9	99.9	95.8	104.5
75.0	76.2	83.5	90.4	95.6	98.2	98.9	94.3	103.4
80.0	76.2	83.0	89.6	94.5	97.2	97.7	93.4	102.4
85.0	75.5	82.6	89.2	93.5	96.3	97.0	92.6	101.6
90.0	75.0	82.0	88.2	92.8	95.5	96.0	91.9	100.7
95.0	74.6	81.6	87.7	92.4	95.0	95.4	91.1	100.2
100.0	74.6	81.1	87.5	91.7	94.2	95.0	90.5	99.6
105.0	73.6	80.1	86.5	91.4	93.0	93.7	90.2	98.9
110.0	73.1	79.6	85.9	90.9	93.2	94.1	89.8	98.5
115.0	73.1	78.8	85.0	90.1	92.3	93.6	88.9	97.9

MODEL THRUST = 14.919 FULL SCALE THRUST = 20000.000

L.	PROB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	13.7	27.3	54.6	109.2	218.5	437.0	860.3	1720.6	3440.0	6880.0	13655.4
795.6	84.01	83.21	84.4	66.72	74.69	79.37	80.23	75.76	69.75	61.48	49.18	26.75	-14.06	-83.03				
585.7	80.21	84.11	89.6	68.59	77.91	84.16	85.91	81.74	76.38	68.21	58.18	40.47	8.88	-44.06				
349.3	93.41	92.01	92.1	70.59	79.96	86.62	88.19	84.80	79.22	71.60	62.91	48.00	21.86	-21.55				
980.0	86.01	94.41	94.2	70.94	80.22	86.55	90.00	87.04	82.03	74.87	67.05	54.00	31.43	-5.72				
815.2	98.11	96.21	95.7	70.66	80.37	86.44	91.95	88.90	84.70	77.89	70.69	58.92	28.87	6.09				
533.6	89.41	97.61	96.7	70.00	79.91	84.32	92.93	90.46	86.59	80.34	73.60	62.77	44.56	14.99				
121.3	100.41	98.01	96.6	69.27	78.67	87.91	92.55	91.14	87.89	81.74	75.34	65.23	48.39	21.24				
958.1	100.51	97.91	96.1	67.68	77.30	86.72	91.02	91.13	88.70	82.33	76.18	66.62	50.85	25.56				
831.9	100.61	97.71	95.2	66.22	75.73	84.78	89.38	89.98	89.67	83.24	77.20	68.16	52.22	29.37				
732.1	99.91	96.91	94.2	65.01	73.71	82.80	87.39	89.38	88.59	82.82	77.04	68.23	53.94	1.22				
655.1	98.91	95.81	93.0	64.77	72.81	80.62	85.76	88.28	87.66	82.08	76.43	67.88	56.00	32.24				
596.3	98.21	96.91	91.9	64.38	71.92	79.69	84.90	86.99	86.90	81.82	76.25	67.90	54.49	33.32				
552.0	97.61	96.11	91.1	64.25	71.50	78.41	83.53	85.96	86.26	80.57	75.08	66.87	53.75	33.07				
523.1	96.51	93.21	90.2	64.42	71.13	77.75	82.58	85.12	85.27	79.94	74.49	66.39	53.45	33.11				
505.7	95.91	92.51	89.5	63.73	70.85	77.46	81.74	84.32	84.42	79.23	73.81	65.76	52.95	32.90				
500.0	95.01	91.61	89.7	63.34	70.26	76.50	81.05	83.56	83.67	78.56	73.16	65.13	52.35	32.27				
505.7	94.91	91.01	89.1	62.86	69.83	75.92	80.57	83.65	83.97	77.74	72.34	64.30	51.48	31.33				
523.1	93.71	90.41	87.4	62.76	69.76	75.69	80.85	82.54	82.54	77.05	71.61	63.50	50.57	31.23				
552.0	92.71	89.21	86.6	61.83	68.15	74.49	79.32	81.46	81.10	76.47	70.94	62.78	49.65	29.97				
596.3	92.11	88.91	85.9	61.46	67.34	73.44	78.24	80.14	81.14	75.24	69.68	61.33	47.92	29.74				
654.1	91.21	87.61	85.0	61.55	66.21	72.43	77.44	79.44	80.46	74.44	68.92	60.37	46.59	29.76				

RUN NUMBER	170.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	1223.000
SECONDARY TEMPERATURE (IN)	950.000
PRIMARY PRESSURE RATIO	1.660
AREA RATIO	2.007
VELOCITY RATIO	0.367
PRIMARY VELOCITY (FT/SEC)	1353.743
MASS FLOW RATIO	2.071
PRIMARY MASS FLOW (LB/SEC)	0.134
THRUST (LBS)	10.307
ENVIRONMENTAL TEMPERATURE (IN)	828.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	15.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	0.045
INSTRUMENTATION NOISE FLOOR (DB)	62.585

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.58238E+00	134.1	THRUST	POWER LEVEL (DB)
500	8.82438E-03	109.5	10000	164.0
1000	8.36841E-02	114.2	20000	167.0
2000	4.87217E-01	120.9	40000	170.0
4000	8.98912E-01	129.5	80000	173.0
8000	6.74006E-01	124.3		
16000	2.93023E-01	124.7		
31500	1.36699E-01	121.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	SOUND PRESSURE LEVELS	4000	8000	16000	31500	OVERALL
15.0	88.1	97.5	102.9	102.8	100.3	93.4	87.9	107.7		
20.0	87.8	97.7	104.5	105.3	103.0	96.2	90.7	109.8		
25.0	87.6	97.2	104.6	105.8	103.5	97.0	92.2	110.1		
30.0	86.7	97.0	104.5	105.7	103.9	98.0	93.3	110.6		
35.0	85.0	95.3	103.9	106.6	103.8	98.0	93.9	110.3		
40.0	83.5	93.6	102.5	105.0	103.8	98.6	94.6	109.7		
45.0	81.7	92.2	100.4	104.4	103.0	98.9	95.1	108.5		
50.0	79.9	90.0	98.1	101.9	101.7	98.9	95.1	108.9		
55.0	78.4	87.6	95.7	99.8	100.9	98.9	96.0	105.8		
60.0	75.9	85.1	93.0	97.5	98.7	97.2	94.6	103.7		
65.0	75.0	83.1	90.9	95.5	97.6	96.6	93.7	102.5		
70.0	73.9	81.7	89.1	93.9	95.5	95.3	92.6	101.2		
75.0	73.0	80.2	87.8	92.1	94.3	93.2	90.6	99.2		
80.0	72.6	79.8	86.9	91.4	93.4	92.4	90.0	98.4		
85.0	72.1	79.3	86.1	90.3	92.5	91.6	89.0	97.5		
90.0	72.1	78.6	85.4	89.4	91.4	89.9	87.2	96.2		
95.0	71.1	78.6	84.4	88.3	90.2	88.8	86.6	95.2		
100.0	71.1	77.9	83.9	87.6	89.0	87.4	85.7	94.2		
105.0	70.5	77.6	83.2	86.6	88.6	87.2	85.3	93.6		
110.0	69.9	76.1	82.5	86.0	87.6	86.3	84.6	92.8		
115.0	69.3	75.5	81.8	85.6	87.0	85.4	83.8	92.2		

MODEL THRUST = 10.307 FULL SCALE THRUST = 20000.000

L.	PHOB.	OASPL	11.4	OCTAVE BAND	22.7	45.4	SOUND PRESSURE LEVELS	90.8	181.6	363.2	LEVELS	715.1	1430.2	2837.6	5675.2	11350.5
1795.6	84.21	83.41	85.6	66.24	75.64	81.05	80.82	77.84	69.70	61.17	50.64	31.64	-3.38	-61.42		
1385.7	89.91	88.81	90.1	68.35	78.33	85.24	85.75	83.16	75.46	67.57	58.91	43.77	16.54	-24.93		
1049.3	92.81	91.31	92.3	70.03	79.65	86.99	88.09	85.52	78.29	71.61	65.02	51.20	28.59	-4.59		
800.0	95.21	93.51	94.3	70.55	80.91	88.40	90.44	87.51	80.95	74.66	67.79	56.48	36.91	4.14		
2615.2	96.61	94.61	95.2	70.05	80.17	88.95	91.56	88.64	82.23	76.79	70.42	60.18	42.73	12.81		
2333.6	97.71	95.41	95.6	69.61	79.69	89.60	91.97	89.58	83.78	78.47	72.46	63.00	47.10	20.44		
2121.3	98.21	95.61	95.3	68.56	79.07	87.33	91.24	89.67	85.16	80.25	74.52	65.64	50.92	26.00		
1958.1	98.01	95.11	94.3	67.40	77.58	85.72	89.47	89.05	85.84	81.09	75.56	67.14	53.32	30.92		
1831.2	98.51	95.21	93.8	66.55	75.94	83.87	87.95	88.89	86.46	82.65	77.28	69.21	58.10	34.85		
1732.1	97.21	93.71	92.2	64.62	73.79	81.81	86.10	87.18	85.29	81.75	78.52	68.72	56.19	35.99		
1655.1	96.81	93.21	91.3	64.03	72.13	79.97	84.47	86.52	85.12	81.34	78.24	68.66	56.52	37.11		
1596.3	95.91	92.21	90.4	63.23	71.03	78.46	83.22	85.71	84.14	80.67	75.61	68.19	56.37	37.55		
1552.9	94.11	90.41	89.6	62.64	69.79	77.38	81.71	83.71	82.36	78.89	73.89	66.59	55.01	36.42		
1523.1	93.61	89.71	88.3	62.37	69.54	76.66	81.09	83.03	81.64	78.49	73.52	66.30	54.89	36.79		
1505.7	92.81	89.01	87.2	62.00	69.21	75.99	80.12	82.25	81.00	77.62	72.67	65.51	54.19	36.26		
1500.0	91.21	87.51	86.3	62.03	68.55	75.31	79.24	81.11	79.36	75.86	70.92	63.77	52.46	34.62		
1505.7	90.31	86.41	84.9	60.97	68.51	74.23	78.14	79.95	78.21	75.23	70.29	63.12	51.80	33.84		
1523.1	89.01	85.01	83.8	60.87	67.66	73.49	77.10	78.63	76.70	74.15	69.19	61.97	50.56	32.46		
1552.9	88.41	84.31	83.1	60.14	67.22	72.76	76.14	78.01	76.28	73.61	68.61	61.31	49.73	31.34		
1596.3	87.21	83.31	82.0	59.31	65.51	71.45	75.29	76.90	74.14	72.60	67.54	60.12	48.30	29.44		
1655.1	86.01	82.21	81.0	58.35	64.42	70.41	74.43	75.45	73.07	71.47	66.29	58.71	46.56	27.14		

RUN NUMBER		180.00 (737.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)		0.025
PRIMARY TEMPERATURE (N)		1215.000
SECONDARY TEMPERATURE (N)		549.000
PRIMARY PRESSURE RATIO		1.600
AREA RATIO		2.007
VELOCITY RATIO		.694
PRIMARY VELOCITY (FT/SEC)		1359.325
MASS FLOW RATIO		3.617
PRIMARY MASS FLOW (LB/SEC)		.134
THRUST (LBS)		20.500
ENVIRONMENTAL TEMPERATURE (N)		555.000
ENVIRONMENTAL PRESSURE (IN.HG)		29.740
ENVIRONMENTAL HUMIDITY (PER CENT)		16.000
CALIBRATION FACTOR (INV TO GT/SG CM)		.071
INSTRUMENTATION NOISE FLOOR (DB)		66.580

RUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	7.76325E+00	138.9	THRUST	POWER LEVEL (DB)
500	2.18936E-02	113.4	10000	165.8
1000	2.35556E-01	123.7	20000	168.8
2000	1.45805E+00	131.6	40000	171.8
4000	3.51963E+00	135.5	80000	174.8
8000	1.61681E+00	132.1		
16000	6.38436E-01	128.1		
31500	2.72890E-01	124.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.4	101.1	105.7	107.1	99.2	91.6	86.9	110.6
20.0	92.1	101.7	107.6	109.0	101.8	94.7	90.3	112.3
25.0	91.3	101.9	108.6	110.5	103.8	97.0	92.8	113.6
30.0	90.2	101.0	108.8	111.0	105.4	98.9	94.4	114.2
35.0	89.0	100.1	108.7	111.5	106.2	100.1	95.1	114.5
40.0	88.8	98.7	107.8	111.8	107.0	101.5	97.1	114.5
45.0	85.2	97.1	106.4	111.5	107.7	102.1	97.6	114.3
50.0	83.7	94.5	104.3	109.8	107.9	102.4	98.2	113.0
55.0	81.9	92.2	101.6	107.4	106.0	102.3	98.4	111.3
60.0	80.2	90.5	99.6	105.6	104.3	101.5	97.3	109.7
65.0	79.9	88.6	97.0	103.0	102.4	100.4	96.9	107.9
70.0	78.6	87.6	95.8	101.7	101.5	99.1	96.1	106.6
75.0	78.3	87.3	94.8	100.7	100.0	98.0	95.8	105.4
80.0	76.2	86.0	94.2	99.9	99.1	97.0	94.0	104.5
85.0	76.2	86.0	93.4	97.9	98.0	96.1	93.5	103.3
90.0	77.8	85.5	92.7	96.9	97.0	95.2	92.6	102.4
95.0	77.0	84.9	92.1	95.9	96.5	94.5	92.2	101.7
100.0	76.6	84.8	91.7	95.8	96.0	93.9	91.3	101.3
105.0	75.6	83.8	91.2	95.3	94.6	92.9	90.6	100.4
110.0	75.1	82.9	90.9	95.5	94.2	92.4	90.5	100.2
115.0	75.0	81.6	89.9	94.7	93.9	92.5	89.8	99.7

MODEL THRUST = 20.500 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE		BAND		SOUND		PRESSURE		LEVELS	
			16.0	32.0	64.0	128.0	256.0	512.0	1024.0	2048.0	4096.0	8192.0
1795.4	84.4 (83.9)	85.4	67.55	76.27	80.77	82.00	73.37	63.76	54.20	40.06	14.27	-32.06
1543.7	89.5 (88.8)	89.7	69.67	79.28	85.16	86.33	78.37	70.06	61.94	50.55	30.30	-5.49
1549.3	93.3 (92.6)	92.8	70.70	81.36	87.97	89.71	82.58	74.57	67.41	57.58	40.63	-11.09
1000.0	95.0 (94.7)	94.8	71.09	81.94	89.62	91.74	85.74	78.24	71.24	62.47	47.67	-19.01
815.7	97.8 (96.5)	96.4	71.05	82.14	90.72	93.40	87.84	80.79	73.71	65.68	52.40	-28.50
733.6	97.5 (97.4)	97.4	69.94	81.74	90.81	94.73	89.68	83.33	77.02	64.53	57.35	-36.91
121.3	100.5 (98.7)	98.0	69.07	81.03	90.24	95.25	91.21	84.87	78.69	71.61	60.27	-41.51
958.1	100.7 (98.6)	97.3	68.28	74.15	80.84	94.30	91.26	86.02	80.13	73.37	62.67	-45.03
831.2	100.4 (98.1)	96.2	67.08	77.44	86.77	92.54	90.89	86.50	81.08	74.56	64.30	-47.67
732.1	99.5 (97.0)	95.0	65.93	76.16	85.27	91.17	89.68	86.30	80.63	74.30	64.49	-48.54
655.1	98.7 (95.9)	93.6	66.02	74.72	83.00	88.99	84.71	85.65	80.77	74.59	65.04	-49.71
596.3	97.6 (94.9)	92.6	64.99	74.61	82.21	88.01	87.56	84.61	80.32	74.25	64.97	-50.04
552.9	96.9 (93.9)	91.7	65.93	73.97	81.38	87.20	86.35	83.84	79.49	73.50	64.40	-49.79
523.1	96.1 (93.1)	91.0	65.03	72.78	80.93	86.83	85.58	82.98	78.72	72.79	63.80	-49.42
505.7	95.3 (92.1)	89.9	65.13	72.88	80.28	86.74	84.48	82.18	77.31	72.42	63.50	-49.24
500.0	94.4 (91.2)	89.0	64.78	72.40	79.59	83.71	83.64	81.36	77.55	71.66	62.76	-48.55
505.7	93.8 (90.6)	88.1	63.92	71.83	79.02	82.67	83.15	80.61	77.01	71.11	62.19	-47.94
523.1	93.1 (90.0)	87.7	63.37	71.45	78.44	82.44	82.57	79.91	76.08	70.15	61.17	-46.78
552.9	91.8 (88.7)	86.7	62.24	70.38	77.19	81.43	80.93	78.70	74.14	68.16	60.05	-45.44
596.3	91.3 (88.1)	86.3	61.47	69.25	77.25	81.42	80.31	77.43	74.44	68.62	59.35	-44.41
1055.1	90.4 (87.3)	85.4	61.88	67.47	75.53	80.44	79.88	77.48	73.64	67.47	57.97	-42.59

NUM NUMBER	=	101.000
AXIAL POSITION OF PRIMARY WPT, SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (K)	=	1218.000
SECONDARY TEMPERATURE (K)	=	543.000
PRIMARY PRESSURE RATIO	=	1.000
AREA RATIO	=	2.007
VELOCITY RATIO	=	.767
PRIMARY VELOCITY (FT/SEC)	=	1361.007
MASS FLOW RATIO	=	4.524
PRIMARY MASS FLOW (LB/SEC)	=	.130
THRUST (LBS)	=	24.582
ENVIRONMENTAL TEMPERATURE (K)	=	552.500
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	=	19.000
CALIBRATION FACTOR (INV TO DT/SD CH)	=	.063
INSTRUMENTATION NOISE FLOOR (DB)	=	65.564

OSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.87296E+00	137.7	THRUST	POWER LEVEL (DB)
			10000	163.8
500	2.93098E-02	114.7	20000	166.8
1000	2.14925E-01	123.3	40000	169.8
2000	1.09311E+00	130.4	80000	172.8
4000	1.74696E+00	137.4		
8000	1.54294E+00	131.9		
16000	8.75513E-01	124.3		
31500	3.01207E-01	126.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.2	101.3	105.4	104.6	100.2	94.8	90.5	109.7
20.0	93.5	101.8	106.4	106.0	102.6	97.8	93.6	111.0
25.0	93.5	102.1	107.7	107.3	104.0	99.8	95.7	112.5
30.0	91.7	100.4	107.8	107.9	105.0	101.3	97.3	112.7
35.0	89.7	99.9	107.4	108.8	106.3	102.5	98.5	113.2
40.0	87.9	98.2	106.4	108.9	107.1	103.4	99.5	113.2
45.0	86.1	95.7	104.7	108.0	107.3	103.7	94.9	112.6
50.0	84.1	93.7	102.7	106.6	106.6	103.6	100.2	111.6
55.0	82.7	91.3	100.2	104.2	105.5	103.3	100.0	110.2
60.0	80.9	89.0	97.7	102.1	103.8	102.1	98.7	108.5
65.0	80.1	87.6	95.9	100.6	102.6	101.3	98.2	107.3
70.0	79.2	86.7	94.3	99.0	101.3	99.8	97.3	106.0
75.0	79.2	85.8	93.0	97.8	100.0	99.0	96.4	104.0
80.0	78.9	85.0	92.2	96.6	98.8	97.3	94.7	103.5
85.0	78.3	84.6	91.6	95.6	97.6	96.6	94.2	102.7
90.0	77.9	84.5	90.8	94.8	97.1	95.7	93.6	102.0
95.0	77.2	83.9	90.3	94.3	96.2	94.6	92.5	101.1
100.0	76.8	83.4	90.0	93.5	95.5	94.3	92.1	100.5
105.0	76.0	83.2	89.5	93.2	95.0	93.5	91.8	100.0
110.0	75.1	81.9	88.8	92.9	94.7	93.5	91.4	99.8
115.0	75.1	80.9	88.4	92.2	94.1	93.1	90.6	99.2

MODEL THRUST = 24.582 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 17.5	BAND 35.1	SOUND 70.1	PRESSURE 140.2	LEVELS 280.5	560.9	1104.3	2208.7	4382.3	8764.6	17529.3
1795.6	83.01	82.51	83.7	88.57	75.71	79.66	78.56	73.33	65.71	56.02	40.69	12.79	-36.95 -114.40
1785.7	87.91	87.11	87.5	76.33	78.56	83.17	82.51	76.46	72.04	63.69	51.36	29.52	-8.85 -71.37
1849.3	91.91	90.81	90.6	72.17	80.77	80.34	85.68	81.87	76.33	68.94	58.39	40.14	0.51 -42.45
1880.0	94.51	93.11	92.4	71.83	80.53	87.86	87.81	84.44	79.61	72.88	63.50	47.61	20.42 -73.29
1815.2	96.91	95.61	94.1	71.03	81.15	88.65	84.98	87.02	82.25	75.78	67.21	52.98	28.89 -9.40
1333.6	98.71	96.91	95.1	70.24	80.45	88.66	91.00	84.00	84.34	78.28	70.32	57.29	35.47 .40
1121.3	99.61	97.61	95.3	69.24	78.81	87.79	90.94	89.47	85.58	79.77	72.25	60.14	40.03 4.25
1058.1	99.91	97.61	95.0	67.46	77.47	86.52	90.26	90.05	86.27	80.99	73.82	62.41	43.62 14.85
1031.2	99.61	97.01	94.1	67.06	75.72	86.55	88.47	89.53	86.62	81.63	74.73	63.86	46.18 18.25
732.1	96.51	95.81	92.9	65.76	73.46	82.54	86.44	88.24	85.91	80.98	74.29	63.85	46.88 20.39
1655.1	98.01	95.11	92.1	65.38	72.01	81.14	85.79	87.53	85.55	80.94	74.42	64.31	47.96 22.59
1596.3	97.11	94.11	91.0	64.84	72.34	79.92	84.51	86.53	84.44	80.51	74.11	64.76	48.38 23.72
1552.9	96.31	93.21	90.2	65.07	71.59	78.81	83.43	85.56	83.92	79.49	73.54	63.92	48.39 24.32
1523.1	95.11	92.01	89.0	64.94	70.37	76.13	82.51	84.48	82.43	78.34	72.10	62.56	47.27 23.00
1505.7	94.61	91.41	88.3	64.39	70.74	77.45	81.45	83.62	81.43	78.03	71.83	62.36	47.21 23.74
1500.0	93.91	90.71	87.6	64.09	70.60	76.89	80.49	82.92	80.96	77.42	71.23	61.79	46.69 23.33
1504.7	92.91	89.71	86.7	63.33	70.03	76.36	80.34	81.97	79.45	76.36	70.15	60.60	45.54 22.11
1523.1	92.11	89.01	86.0	62.64	69.36	75.45	79.44	81.14	79.37	75.78	69.54	60.80	44.72 21.05
1552.9	91.41	88.31	85.4	61.85	68.44	75.33	78.93	80.48	78.40	75.22	69.92	59.24	43.72 19.65
1596.3	90.81	87.71	84.4	60.69	67.44	74.32	78.35	79.99	78.14	74.55	68.16	58.30	42.42 17.76
1655.1	89.71	86.71	83.9	60.39	66.14	73.44	77.34	78.07	77.37	73.37	66.85	56.74	40.39 14.93

RUN NUMBER	142-000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	1233.000
SECONDARY TEMPERATURE (IN)	950.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	4.654
VELOCITY RATIO	0.365
PRIMARY VELOCITY (FT/SEC)	1360.357
MASS FLOW RATIO	3.833
PRIMARY MASS FLOW (LB/SEC)	0.134
THRUST (LBS)	14.113
ENVIRONMENTAL TEMPERATURE (R)	551.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	19.000
CALIBRATION FACTOR (INV TO DY/50 CH)	0.028
INSTRUMENTATION NOISE FLOOR (DB)	52.584

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	7.89784E-01	129.0	THRUST POWER LEVEL (DB)
500	7.26387E-03	104.6	10000 157.5
1000	5.01157E-02	117.0	20000 160.5
2000	1.97195E-01	122.9	40000 163.5
4000	2.94991E-01	124.7	80000 166.5
8000	1.81473E-01	122.6	
16000	4.13276E-02	116.2	
31500	1.74169E-02	112.4	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 10000	31500	OVER ALL
15.0	82.8	95.4	99.6	99.4	97.1	84.8	75.5	104.3
20.0	87.6	95.8	100.3	100.8	94.2	85.1	76.1	105.4
25.0	87.7	96.0	101.4	102.1	99.4	86.8	77.3	106.4
30.0	85.8	94.2	101.1	102.4	99.3	87.1	79.4	106.3
35.0	84.5	93.4	100.0	102.3	98.7	88.7	80.9	105.8
40.0	82.6	91.2	98.1	100.7	97.8	90.1	83.5	104.3
45.0	80.5	89.2	96.2	98.9	97.0	91.0	85.3	102.9
50.0	78.9	87.3	93.6	96.3	95.7	91.1	85.8	101.0
55.0	77.2	84.9	91.1	93.8	94.0	90.5	86.9	99.1
60.0	76.1	82.8	88.6	91.6	92.5	90.0	86.8	97.5
65.0	75.0	81.0	86.6	89.7	90.6	87.9	85.5	95.6
70.0	73.6	80.0	85.4	88.2	88.4	86.3	84.0	94.1
75.0	73.4	78.9	84.2	87.2	87.7	85.2	82.9	93.0
80.0	72.5	78.2	83.3	85.9	86.5	83.8	82.0	91.9
85.0	71.9	77.3	82.7	85.0	85.3	82.9	81.5	91.0
90.0	71.9	76.6	81.8	84.4	84.6	82.1	80.6	90.2
95.0	71.3	76.2	81.3	83.3	83.8	81.0	80.2	89.4
100.0	71.3	75.8	80.6	82.8	82.8	80.7	79.3	88.7
105.0	70.2	75.1	79.6	81.6	81.7	79.3	78.9	87.7
110.0	69.9	74.6	78.8	81.2	81.3	78.9	78.6	87.2
115.0	69.4	74.4	78.5	80.9	80.7	78.0	78.1	86.8

MODEL THRUST = 14.113 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 13.3	BAND 26.6	SOUND 53.1	PRESSURE 106.3	LEVELS 212.5	425.0	836.8	1673.6	3320.5	6641.1	13282.2
8795.6	78.51 (78.11)	80.8	59.64	72.23	76.37	75.93	73.09	59.39	46.10	34.17	12.28	-27.60	-95.25
2385.7	82.81 (82.31)	84.5	66.84	75.67	79.81	79.60	76.82	62.57	50.75	40.94	23.64	-7.27	-59.19
3549.3	86.21 (85.51)	87.3	68.73	77.03	82.42	83.05	79.95	66.49	54.67	46.15	31.59	6.00	-36.60
3088.0	87.91 (87.01)	88.6	68.33	76.76	83.55	84.43	81.40	68.40	57.76	50.10	37.32	15.23	-21.24
2615.2	89.21 (88.11)	89.3	68.24	77.10	83.66	85.91	82.09	71.36	61.92	54.86	43.33	23.69	-2.44
2333.6	89.81 (88.31)	88.8	67.27	75.89	82.74	85.27	82.15	73.87	64.75	54.12	44.52	30.67	1.64
2121.3	90.41 (88.51)	88.3	66.05	74.75	81.71	84.33	82.30	75.66	68.64	62.36	52.45	35.95	9.24
1950.1	90.31 (87.91)	87.1	65.09	73.49	79.82	82.50	81.71	76.57	70.77	64.73	55.34	39.88	15.04
1821.7	89.71 (87.01)	85.7	63.98	71.58	77.91	80.55	80.58	76.80	71.71	65.92	56.95	42.30	18.87
1737.1	89.71 (86.01)	84.5	63.37	70.68	75.92	78.89	79.53	76.59	72.26	66.57	57.93	43.90	21.58
1655.1	87.81 (84.51)	83.1	62.74	68.70	74.24	77.14	78.10	74.91	71.41	65.84	57.45	43.92	22.45
1598.3	86.61 (83.21)	81.0	61.65	68.03	73.40	76.14	76.61	73.72	70.36	64.88	56.68	43.52	22.71
1552.9	85.81 (82.31)	81.1	61.63	67.17	72.47	75.42	75.78	72.82	69.54	64.13	56.07	43.18	22.86
1523.1	84.81 (81.21)	80.1	60.97	66.57	71.70	74.30	74.73	71.66	68.41	63.44	55.48	42.78	22.79
1505.7	84.01 (80.31)	79.3	60.47	65.92	71.18	73.45	73.66	70.83	68.02	63.08	55.17	42.59	22.79
1500.0	83.21 (79.51)	78.6	60.50	65.12	70.31	72.92	72.91	70.08	67.54	62.21	54.32	41.78	22.05
1505.7	82.41 (78.61)	77.7	59.82	64.49	69.78	71.74	72.11	69.69	67.11	61.77	51.86	41.28	21.49
1523.1	81.41 (77.61)	76.9	59.72	64.14	69.33	71.15	71.30	67.97	65.14	60.78	52.81	40.12	20.13
1522.9	80.31 (76.41)	75.7	59.46	63.34	67.46	69.81	69.70	66.89	64.49	60.07	52.01	39.13	19.41
1506.3	79.41 (75.71)	75.0	57.86	62.84	66.42	68.10	68.78	66.25	64.96	60.48	51.28	38.12	17.32
1655.1	78.51 (74.61)	74.2	57.15	62.04	65.16	67.14	68.04	65.09	63.92	59.13	50.59	36.59	17.13

WIND NUMBER	183.00 (738.00)
AXIAL POSITION IN PRIMARY WMT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	1220.000
SECONDARY TEMPERATURE (R)	550.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	4.000
VELOCITY RATIO	0.693
PRIMARY VELOCITY (FT/SEC)	1362.119
MASS FLOW RATIO	8.476
PRIMARY MASS FLOW (LB/SEC)	1134
THRUST (LBS)	40.235
ENVIRONMENTAL TEMPERATURE (R)	540.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	23.000
CALIBRATION FACTOR (MV TO DV/50 CM)	0.45
INSTRUMENTATION NOISE FLOOR (DB)	02.505

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.43464E+00	133.9	THRUST	POWER LEVEL (DB)
500	8.33334E-02	119.2	10000	157.8
1000	3.95147E-01	126.0	20000	160.8
2000	7.70406E-01	128.9	40000	163.8
4000	5.62053E-01	127.5	80000	166.8
8000	3.69403E-01	125.7		
16000	1.02613E-01	122.1		
31500	9.16230E-02	119.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.0	104.1	103.9	98.2	91.8	85.4	81.9	108.2
20.0	98.4	105.0	105.9	100.4	94.6	87.4	83.8	109.7
25.0	98.1	104.7	106.8	102.1	96.0	88.6	85.5	110.2
30.0	96.3	103.9	106.4	102.5	96.8	90.2	86.6	109.8
35.0	94.8	102.2	105.3	103.0	98.7	91.7	88.0	109.2
40.0	92.6	100.0	104.1	103.3	99.5	93.5	89.8	108.5
45.0	90.1	97.7	102.3	102.4	100.0	94.8	90.9	107.5
50.0	87.8	94.9	99.9	100.6	99.6	95.1	91.2	105.9
55.0	84.5	93.2	98.1	99.2	98.8	94.6	91.4	104.7
60.0	85.2	91.4	96.5	97.7	97.8	94.7	91.7	103.5
65.0	84.0	91.0	95.5	96.0	97.1	94.4	92.3	102.0
70.0	83.1	89.6	94.3	96.0	96.2	94.0	91.9	102.1
75.0	83.5	89.0	93.4	95.3	95.7	93.5	91.3	101.4
80.0	83.1	88.3	92.3	94.1	94.6	92.5	90.7	100.3
85.0	82.0	87.2	91.8	93.5	94.2	92.4	90.5	100.0
90.0	81.8	86.9	91.0	92.6	93.0	91.0	89.3	98.9
95.0	81.3	86.5	90.4	92.1	92.9	90.4	89.2	98.4
100.0	81.2	85.6	89.6	91.7	92.5	90.6	89.0	98.2
105.0	80.1	84.8	89.3	91.1	91.9	90.6	89.1	97.8
110.0	79.7	84.5	89.3	91.1	91.9	90.3	89.0	97.7
115.0	78.4	83.8	88.1	90.7	91.4	90.1	88.4	97.2

MODEL THRUST = 40.235 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	22.4	OCTAVE 44.9	BAND 89.7	SOUND 179.4	PRESSURE 358.8	LEVELS 717.6	1412.8	2825.7	5606.5	11213.1	22426.2
795.6	76.4 (76.1)	80.3	70.87	76.36	75.99	69.91	62.27	52.75	41.94	22.84	-11.56	-71.46	-166.74
795.7	81.9 (81.5)	84.2	73.67	79.65	80.40	74.64	67.95	58.34	49.21	30.03	7.27	-38.79	-111.62
795.8	85.4 (84.9)	88.5	74.60	81.17	83.70	78.21	71.44	62.10	54.54	41.68	19.45	-18.40	-77.91
800.0	87.2 (86.5)	87.6	74.23	81.88	84.28	80.13	73.84	65.61	58.29	46.96	27.70	-4.75	-55.52
815.2	89.0 (88.2)	89.1	73.52	81.34	84.39	81.44	77.06	68.69	61.70	51.44	34.26	5.59	-30.05
833.6	90.5 (89.4)	89.4	72.74	80.14	84.16	82.27	78.50	71.65	65.04	55.55	39.91	14.00	-26.10
850.1	91.3 (89.8)	89.1	71.10	78.66	83.22	83.18	80.37	74.01	67.60	58.51	44.82	20.19	-16.59
868.1	91.3 (89.8)	87.1	69.44	76.60	81.54	82.12	80.69	75.09	68.41	60.37	46.76	24.53	-9.64
883.2	91.3 (89.6)	88.5	68.74	75.47	80.32	81.29	80.48	75.53	69.84	61.75	44.83	27.85	-4.31
892.1	91.0 (89.1)	85.7	67.93	74.16	79.23	80.24	79.98	75.95	70.76	62.98	50.59	30.50	0.01
905.1	91.1 (89.0)	85.5	67.18	74.10	78.61	79.90	79.74	76.10	71.92	64.32	52.35	33.10	3.75
916.3	90.8 (88.4)	84.9	66.59	73.03	77.72	79.30	79.21	76.14	72.03	64.60	52.95	34.28	5.86
922.9	90.5 (88.2)	84.6	67.23	72.71	77.62	78.82	78.96	75.91	71.76	64.45	53.04	34.79	7.06
932.1	89.6 (87.3)	83.5	67.00	68.14	76.14	77.83	78.03	75.12	71.35	64.12	52.87	34.91	7.66
945.7	89.5 (87.1)	83.3	65.94	71.11	75.72	77.35	77.71	75.11	71.29	64.11	52.95	35.17	8.20
960.0	88.4 (86.0)	82.4	65.01	70.87	74.94	76.46	76.57	73.72	70.19	63.03	51.90	34.17	7.29
975.7	88.1 (85.7)	82.0	65.29	70.45	74.37	75.90	76.43	73.44	70.04	62.85	51.70	33.91	6.94
990.7	88.1 (85.2)	81.5	65.02	69.42	73.47	75.41	75.53	73.17	69.67	62.44	51.19	33.23	5.98
1005.1	87.6 (85.2)	80.8	63.77	69.46	72.91	74.54	75.09	72.97	69.56	62.24	50.83	32.58	4.46
1022.9	87.0 (84.5)	80.6	63.77	69.46	72.91	74.54	75.09	72.97	69.56	62.24	50.83	32.58	4.46
1040.3	86.7 (84.2)	80.5	63.13	67.98	72.75	74.35	74.90	72.37	69.11	61.68	50.03	31.35	2.94
1055.1	85.7 (83.3)	79.6	61.42	66.90	71.15	73.72	74.25	71.83	68.07	60.48	48.51	29.26	-0.74

RUN NUMBER	184.00 (739)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (°F)	1227.000
SECONDARY TEMPERATURE (°F)	555.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	4.456
VELOCITY RATIO	.772
PRIMARY VELOCITY (FT/SEC)	1366.021
MASS FLOW RATIO	9.636
PRIMARY MASS FLOW (LB/SEC)	.130
THRUST (LBS)	47.419
ENVIRONMENTAL TEMPERATURE (°F)	548.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	27.800
CALIBRATION FACTOR (INV TO 0V/50 CM)	.063
INSTRUMENTATION NOISE FLOOR (DB)	65.500

JUSTICE POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.60815E+00	136.6	THRUST	POWER LEVEL (DB)
500	1.53114E-01	121.9	10000	159.9
1000	7.77792E-01	128.9	20000	162.9
2000	1.55267E+00	131.9	40000	165.9
4000	1.03908E+00	130.2	80000	168.9
8000	6.36884E-01	128.0		
16000	2.96600E-01	124.7		
31500	1.51206E-01	121.8		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	101.4	106.5	107.1	101.0	94.1	88.5	84.6	111.0
20.0	101.8	108.0	108.6	103.2	96.5	90.7	86.5	112.5
25.0	100.8	107.9	109.5	104.1	98.6	92.6	89.3	113.0
30.0	99.2	106.9	109.7	105.8	100.2	94.6	90.7	113.1
35.0	97.0	105.7	109.5	106.6	102.2	96.6	92.4	113.0
40.0	94.4	102.9	107.1	106.0	102.9	97.8	93.6	113.5
45.0	92.4	100.4	105.2	105.4	103.0	98.5	94.5	110.4
50.0	90.1	97.5	102.9	103.5	102.0	98.3	94.6	108.7
55.0	88.0	95.5	100.6	101.6	101.0	98.2	95.1	107.2
60.0	87.0	93.5	98.8	100.1	100.1	97.7	94.3	105.9
65.0	86.1	92.3	97.2	98.8	99.7	95.1	93.3	104.5
70.0	86.0	92.1	96.2	97.7	97.8	96.0	93.6	103.9
75.0	85.5	91.0	95.8	97.6	97.5	95.5	93.0	103.5
80.0	85.0	90.5	94.5	96.2	96.3	94.4	92.0	102.3
85.0	84.8	89.9	93.8	95.5	95.6	93.8	92.0	101.7
90.0	84.1	89.4	93.4	94.7	95.2	93.4	91.5	101.2
95.0	83.2	88.3	92.5	94.2	94.8	92.9	90.9	100.6
100.0	83.2	87.9	92.1	93.6	93.9	92.1	90.2	99.9
105.0	82.5	87.6	91.6	93.1	93.6	92.0	90.0	99.6
110.0	81.1	86.7	91.3	92.9	93.2	91.6	89.5	99.2
115.0	80.1	86.0	91.0	92.7	92.9	91.0	89.0	98.8

MODEL THRUST = 47.419 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	24.3	OCTAVE 48.7	BAND 97.4	SOUND 141.8	PRESSURE 189.5	779.1	LEVELS 1533.6	3067.6	6086.6	12173.1	24340.2
3795.6	79.8 (79.6)	82.3	72.98	77.99	78.45	71.85	63.58	54.57	42.60	22.06	-14.78	-78.37	-174.40
3885.7	84.8 (84.5)	86.3	75.72	81.91	82.40	76.67	68.68	60.50	50.25	33.98	5.37	-43.48	-119.90
3949.3	88.1 (87.6)	88.6	78.59	83.68	85.20	79.44	73.16	65.06	56.81	43.07	19.34	-29.76	-83.14
3080.0	90.5 (89.9)	90.2	78.50	84.18	86.90	82.73	76.44	69.05	61.01	48.92	28.41	-5.95	-50.14
2615.2	92.7 (91.8)	91.2	75.45	84.14	87.91	84.75	79.77	72.59	64.79	53.88	35.61	5.27	-41.52
2333.6	93.3 (92.3)	90.6	73.89	82.30	86.43	85.17	81.53	75.02	67.57	57.51	40.88	13.49	-24.58
2121.3	94.0 (92.7)	90.3	72.67	80.64	85.42	85.40	82.53	76.73	69.81	60.39	45.00	19.83	-14.69
1958.1	93.7 (92.3)	89.2	71.04	78.49	83.80	84.34	82.30	77.44	70.97	62.05	47.61	24.14	-11.64
1831.7	93.5 (91.9)	88.2	69.60	77.03	82.07	82.98	81.91	78.00	72.35	63.81	50.12	27.94	-5.08
1732.1	93.1 (91.3)	87.3	69.05	75.56	80.74	81.92	81.52	77.67	72.31	64.06	50.95	29.84	-2.16
1655.1	92.2 (90.4)	86.4	68.54	74.70	79.62	81.05	80.57	76.77	71.85	63.84	51.17	30.47	1.16
1546.3	92.1 (90.1)	86.0	68.72	74.40	78.84	80.28	80.02	77.76	72.59	64.76	52.44	32.75	3.03
1522.9	92.0 (90.0)	85.9	68.53	73.97	78.77	80.36	79.96	77.04	72.33	64.63	52.46	33.33	4.33
1523.1	91.1 (89.5)	84.9	68.99	73.63	77.63	79.21	78.91	76.05	71.59	63.97	52.08	33.16	4.66
1505.7	90.7 (89.0)	84.3	68.05	73.10	76.97	78.42	78.35	75.44	71.73	64.17	52.38	33.64	5.43
1500.0	90.2 (89.0)	83.9	67.42	72.65	76.66	77.85	77.98	75.27	71.30	63.76	52.00	33.32	5.20
1504.7	89.6 (87.4)	83.2	66.49	71.57	76.67	77.29	77.51	74.72	71.62	63.08	51.27	32.53	4.32
1523.1	88.7 (86.4)	82.4	66.39	71.01	75.18	76.57	76.55	73.78	69.79	62.18	50.29	31.37	2.40
1552.9	88.2 (86.0)	81.9	65.44	70.41	74.41	75.94	76.42	73.48	69.41	61.71	49.44	30.41	1.41
1546.3	87.4 (85.3)	81.3	63.46	69.44	74.00	75.44	75.39	72.40	68.47	60.64	48.32	28.63	-1.09
1655.1	86.6 (84.8)	80.6	62.57	68.67	73.42	74.34	74.75	71.41	67.54	59.53	46.87	26.57	-4.14

RUN NUMBER	115.00 (R15.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	1227.000
SECONDARY TEMPERATURE (R)	545.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	9.788
VELOCITY RATIO	.364
PRIMARY VELOCITY (FT/SEC)	1365.021
MASS FLOW RATIO	7.670
PRIMARY MASS FLOW (LB/SEC)	.138
THRUST (LBS)	22.265
ENVIRONMENTAL TEMPERATURE (R)	544.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	30.000
CALIBRATION FACTOR (MV TO GV/50 CM)	.036
INSTRUMENTATION NOISE FLOOR (DB)	88.584

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.52252E+00	131.8	THRUST	POWER LEVEL (DB)
500	1.24937E-02	111.0	10000	158.3
1000	6.78521E-02	118.3	20000	161.4
2000	2.58963E-01	124.1	40000	164.4
4000	4.93721E-01	126.9	80000	167.4
8000	4.45279E-01	126.5		
16000	1.73403E-01	122.4		
31500	7.68061E-02	118.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	89.4	95.9	98.2	98.6	97.4	90.2	84.2	104.2
20.0	89.1	96.5	100.4	100.6	99.9	92.2	85.4	106.0
25.0	88.4	96.1	101.4	102.5	100.8	92.6	86.3	107.0
30.0	87.7	95.3	101.5	103.6	101.4	94.3	88.2	107.6
35.0	86.3	94.6	101.4	104.3	101.8	95.1	89.6	108.0
40.0	84.6	93.0	99.7	103.9	102.7	97.1	91.3	107.9
45.0	83.3	91.0	98.3	101.9	101.9	97.5	92.3	106.7
50.0	81.9	89.4	95.0	99.6	100.6	97.5	92.6	105.2
55.0	79.7	87.5	93.7	97.7	99.3	97.0	92.7	103.9
60.0	79.0	85.3	91.6	95.4	97.2	95.5	92.4	102.0
65.0	78.1	84.3	90.3	94.1	96.0	93.8	90.8	100.6
70.0	77.0	83.3	88.8	92.5	94.2	92.1	89.3	99.0
75.0	76.1	82.4	87.4	91.3	93.0	91.3	88.9	97.9
80.0	76.0	81.5	86.0	90.2	91.8	89.6	87.6	96.7
85.0	75.9	80.9	86.2	89.4	90.6	88.6	86.8	95.8
90.0	75.1	80.6	85.3	88.3	89.5	87.1	85.6	94.7
95.0	74.3	80.2	84.9	87.4	88.4	86.0	85.1	93.8
100.0	74.5	79.8	83.9	86.6	87.2	85.0	84.9	93.0
105.0	73.6	78.8	83.3	86.1	86.7	84.7	84.5	92.5
110.0	73.3	78.2	82.4	85.1	85.8	84.3	84.3	91.8
115.0	72.2	77.3	82.4	84.8	85.2	83.4	83.8	91.3

MODEL THRUST = 22.265 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
			16.7	33.4	66.7	133.5	266.9	533.8	1051.0	2102.0	4170.7	8341.3	16682.6
1795.6	78.11	77.61	78.5	64.18	70.73	73.49	73.06	71.13	61.81	50.69	36.02	9.29	-38.57 -117.61
1385.7	83.61	82.91	82.8	68.39	73.69	77.62	77.62	76.33	67.05	54.33	44.50	23.54	-13.41 -73.95
1049.3	87.01	86.11	85.8	67.50	75.18	80.40	81.38	79.17	69.93	60.29	50.14	32.61	2.14 -47.43
1000.0	89.51	88.41	87.9	68.29	75.84	82.01	83.93	81.36	73.20	64.45	55.41	40.13	13.91 -28.45
1615.7	91.51	90.71	89.5	68.04	76.10	83.12	85.85	83.05	75.41	67.59	59.33	45.62	22.38 -14.93
1333.4	93.41	91.81	90.3	67.38	75.76	82.39	86.52	84.96	78.53	70.70	63.00	50.44	29.38 -4.24
1121.3	93.81	91.91	89.8	66.84	74.54	81.83	85.34	85.01	79.84	72.83	65.56	53.87	34.45 3.62
1050.1	93.71	91.51	89.0	66.16	73.47	80.03	83.69	84.52	80.68	74.07	67.12	56.11	37.95 9.26
1831.2	93.31	90.91	88.2	64.49	72.34	78.51	82.39	83.81	80.80	74.95	68.76	57.77	49.59 1.57
1732.1	92.31	89.51	86.8	64.31	70.64	76.90	80.59	82.20	79.82	75.21	68.72	58.63	42.22 14.50
1655.1	91.41	88.61	85.9	63.79	70.01	76.00	79.72	81.37	78.60	74.14	67.81	58.03	42.22 17.51
1596.3	90.31	87.31	84.6	63.08	69.37	74.74	78.46	79.46	77.23	73.08	66.86	57.33	41.97 18.03
1552.9	89.51	86.41	83.8	62.40	68.67	73.65	77.43	78.95	76.70	72.42	66.80	57.44	42.42 19.04
1523.1	88.51	85.31	82.8	63.26	67.92	73.26	76.59	77.96	75.10	71.83	65.76	56.52	41.73 18.75
1505.7	87.51	84.31	81.9	62.42	67.45	72.75	75.80	76.83	74.29	71.16	65.12	55.96	41.30 19.55
1500.0	86.41	83.21	80.9	61.68	67.19	71.44	74.83	75.76	72.83	70.05	64.03	54.89	40.28 19.60
1505.7	85.41	82.11	80.0	60.99	66.88	71.40	73.89	74.81	71.84	67.45	63.42	54.25	39.40 19.44
1523.1	84.51	81.01	79.0	60.99	66.76	70.30	72.74	73.12	70.62	67.14	63.11	53.88	39.09 18.10
1552.9	83.71	80.31	78.3	59.90	65.02	69.52	72.27	72.71	70.06	66.52	62.39	53.03	38.01 18.64
1594.3	82.91	79.21	77.3	59.33	64.20	68.36	71.02	71.57	69.40	64.06	61.84	52.31	36.95 13.01
1655.1	81.91	78.21	76.5	57.96	63.04	66.04	70.41	70.47	68.22	67.17	60.84	51.06	35.25 10.54

MUN NIMHEN		
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)		186.000
PRIMARY TEMPERATURE (H)		0.000
SECONDARY TEMPERATURE (H)		1215.000
PRIMARY PRESSURE RATIO		946.000
AREA RATIO		1.600
VELOCITY RATIO		9.788
PRIMARY VELOCITY (FT/SEC)		.642
MASS FLOW RATIO		1359.325
PRIMARY MASS FLOW (LB/SEC)		17.684
THRUST (LBS)		.132
ENVIRONMENTAL TEMPERATURE (R)		73.596
ENVIRONMENTAL PRESSURE (IN.HG)		539.090
ENVIRONMENTAL HUMIDITY (PEM CFMT)		29.760
CALIBRATION FACTOR (MV TO DY/SU CH)		26.000
INSTRUMENTATION NOISE FLOOR (DB)		.056
		64.590

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.40686E+00	137.3	THRUST	POWER LEVEL (DB)
			10000	150.7
500	2.25544E-01	123.5	20000	161.7
1000	7.90362E-01	129.0	40000	164.7
2000	1.25390E+00	131.0	60000	167.7
4000	1.28290E+00	131.1		
8000	1.11312E+00	130.5		
16000	5.23036E-01	127.2		
31500	2.17993E-01	123.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (deg)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	8000	16000	31500	ALL
15.0	103.5	107.0	104.0	99.3	95.5	91.0	88.0	110.5
20.0	103.1	107.0	105.8	101.6	95.8	94.6	90.5	111.6
25.0	101.6	107.2	107.1	103.1	100.6	96.1	91.8	111.9
30.0	99.9	106.1	107.2	105.4	101.6	97.2	92.4	111.9
35.0	97.8	104.8	107.2	106.4	103.7	98.7	94.1	112.2
40.0	95.5	102.5	106.2	106.4	104.4	99.9	95.2	111.7
45.0	93.9	100.1	104.9	106.2	105.3	101.3	96.6	111.4
50.0	92.7	98.9	103.3	105.0	105.1	101.5	97.0	110.6
55.0	91.4	96.8	101.8	103.7	104.4	101.5	97.6	109.6
60.0	90.1	96.2	100.3	102.5	103.2	100.6	96.1	108.5
65.0	89.4	94.9	99.2	101.2	101.8	99.1	95.3	107.2
70.0	90.1	94.9	98.7	100.3	100.6	98.0	94.5	106.3
75.0	89.2	94.1	97.9	99.3	99.6	97.1	93.9	105.4
80.0	89.7	94.0	97.2	98.5	98.8	96.1	92.4	104.7
85.0	88.9	93.0	96.7	98.0	97.9	95.4	92.2	104.0
90.0	88.0	92.2	95.7	97.2	97.1	94.6	91.8	103.2
95.0	87.5	91.9	95.7	96.6	96.5	94.0	91.4	102.7
100.0	86.3	91.4	94.8	95.5	95.7	93.2	90.9	101.9
105.0	86.0	90.6	94.1	95.2	95.4	92.9	90.3	101.4
110.0	85.7	90.5	93.7	94.8	95.0	93.0	90.4	101.2
115.0	85.0	89.7	93.4	94.5	95.1	92.7	90.2	100.9

MODEL THRUST = 73.596 FULL SCALE THRUST = 20000.000

L.	PNDU.	OASPL	OCTAVE		BAND	SOUND	PRESSURE		LEVELS				
			30.3	60.7	121.3	242.6	485.3	970.6	1910.4	3821.7	7562.7	15165.4	30330.7
795.6	76.8 (76.7)	79.8	73.15	76.57	77.36	67.95	62.34	53.18	39.85	14.91	-29.13	-103.28	-216.44
185.7	82.3 (82.1)	83.3	75.12	79.77	77.62	72.93	68.69	60.97	49.14	29.53	-4.52	-61.36	-147.73
549.3	85.9 (85.6)	85.4	75.52	81.03	80.78	76.42	72.73	65.42	54.79	38.35	10.22	-36.35	-106.82
880.0	88.5 (88.0)	86.7	75.21	81.38	82.39	79.30	75.47	68.71	59.58	45.22	20.97	-18.86	-78.88
615.7	91.2 (90.6)	89.3	74.31	81.32	83.45	82.54	79.96	71.45	62.82	49.72	28.21	-9.90	-55.61
333.4	92.4 (91.7)	88.6	73.03	79.98	83.58	83.55	80.81	74.47	65.62	53.78	34.26	2.61	-44.75
121.3	93.7 (92.8)	89.0	72.28	78.40	83.15	84.19	82.60	76.93	68.42	57.38	39.36	10.32	-33.00
958.1	94.2 (93.1)	88.8	71.76	77.97	82.26	83.76	83.21	77.98	70.03	59.62	42.75	15.71	-24.51
831.2	94.3 (93.1)	88.4	71.06	76.44	81.31	83.03	83.14	78.79	71.62	61.69	45.72	28.24	-12.57
732.1	93.7 (92.5)	87.7	70.20	76.26	80.35	82.32	82.51	78.51	70.47	61.31	46.85	21.78	-14.14
655.1	93.6 (91.6)	86.9	69.95	75.00	79.64	81.43	81.51	77.45	70.76	61.49	46.77	23.55	-11.01
594.3	92.5 (91.0)	86.4	70.98	75.72	74.43	80.45	80.70	76.82	70.51	61.47	47.17	24.57	-8.77
552.9	91.9 (90.4)	85.8	70.26	75.48	78.89	80.11	79.93	76.15	70.25	61.37	47.37	25.31	-7.21
523.1	91.4 (90.8)	85.3	70.92	75.24	78.33	74.56	79.27	75.43	70.00	61.23	47.44	25.75	-6.21
505.7	90.9 (89.1)	84.6	70.76	74.30	77.93	74.06	74.55	74.77	69.93	60.73	45.56	25.08	-6.54
500.0	89.9 (88.3)	83.4	69.37	73.60	77.61	78.34	77.77	74.00	69.56	59.88	46.26	24.85	-6.86
505.7	89.3 (87.7)	83.4	68.44	73.10	76.48	77.47	77.11	73.43	68.88	59.38	45.72	24.23	-7.34
523.1	88.4 (86.8)	82.4	67.52	72.40	75.52	76.53	76.14	72.51	67.47	58.70	44.92	23.22	-8.74
542.9	87.8 (86.2)	81.8	67.11	71.70	75.09	76.43	74.74	72.00	66.60	57.77	43.73	21.66	-10.86
596.3	87.2 (85.6)	81.2	66.49	71.31	74.49	75.34	74.10	71.78	65.34	57.31	43.01	20.41	-12.43
654.1	86.4 (85.1)	80.6	65.52	70.14	73.87	74.76	74.01	71.07	64.54	56.34	41.42	18.30	-14.16

RUN NUMBER	187.000
AZIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	1215.000
SECONDARY TEMPERATURE (IN)	552.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	9.744
VELOCITY RATIO	.774
PRIMARY VELOCITY (FT/SEC)	1359.325
MASS FLOW RATIO	21.851
PRIMARY MASS FLOW (LR/SEC)	.123
THRUST (LBS)	93.287
ENVIRONMENTAL TEMPERATURE (R)	542.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	27.000
CALIBRATION FACTOR (INV TO DY/50 CM)	.049
INSTRUMENTATION NOISE FLOOR (DB)	68.577

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.00338E+01	140.0	THRUST	POWER LEVEL (DB)
500	4.36633E-01	126.4	10000	160.3
1000	1.59915E+00	132.0	20000	163.3
2000	2.36419E+00	133.7	40000	166.3
4000	2.16643E+00	133.5	80000	169.3
8000	1.95370E+00	132.9		
16000	1.04352E+00	130.2		
31500	4.70212E-01	128.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	106.2	110.0	107.4	101.8	98.2	93.8	90.9	113.4
20.0	105.9	111.4	109.1	104.5	101.7	97.7	93.9	114.9
25.0	105.2	110.9	110.4	105.7	102.9	99.1	95.5	115.2
30.0	102.5	109.0	110.0	106.8	104.5	100.7	96.9	115.6
35.0	101.7	107.8	110.0	106.4	106.0	102.3	98.2	114.9
40.0	99.0	105.6	109.2	108.9	107.2	103.4	99.0	115.6
45.0	95.9	103.4	107.2	107.4	107.3	103.8	99.4	113.6
50.0	95.1	101.7	106.0	107.4	107.1	104.0	99.9	113.0
55.0	93.3	99.6	104.2	105.4	106.1	103.2	99.4	111.6
60.0	92.3	98.4	102.9	104.6	105.3	103.0	98.4	110.4
65.0	92.5	97.5	101.4	103.1	104.0	102.1	98.6	109.5
70.0	91.7	96.8	100.5	102.2	102.9	100.4	97.9	108.6
75.0	91.6	95.9	99.8	101.6	101.8	99.0	97.1	107.8
80.0	91.4	95.7	99.6	101.1	101.4	99.4	96.5	107.3
85.0	90.8	95.1	98.8	100.5	101.0	98.9	96.0	106.8
90.0	90.3	94.8	98.2	99.7	100.2	98.3	95.8	106.1
95.0	89.4	94.4	98.0	99.2	99.8	97.9	95.1	105.7
100.0	89.6	93.9	97.6	98.6	99.6	97.9	95.2	105.4
105.0	89.3	93.8	97.1	98.5	99.3	97.8	95.2	105.2
110.0	88.0	93.3	96.7	98.1	99.2	97.1	94.6	104.9
115.0	87.5	92.1	96.3	97.9	99.4	97.5	94.5	104.7

MODEL THRUST = 93.287 FULL SCALE THRUST = 20000.000

L.	PND.	OASPL	34.1	OCTAVE	BAND	SOUND	PRESSURE	LEVELS					
			68.3	136.6	273.2	546.4	1092.7	2151.3	4302.7	8537.0	17074.1	34148.1	
195.6	79.51	79.41	81.7	74.80	78.45	75.62	69.22	63.43	53.71	39.02	11.36	-36.99	-117.24
195.7	85.01	84.61	85.5	76.92	82.31	79.81	74.67	70.19	62.07	49.38	27.72	-9.59	-71.05
199.3	88.91	88.21	87.7	78.04	83.66	80.07	77.88	73.71	65.62	55.75	37.64	6.47	-43.44
200.0	90.51	90.11	88.4	76.85	83.23	80.15	80.51	77.08	70.52	60.57	44.80	18.33	-24.66
215.2	93.11	92.51	89.8	77.17	83.29	80.00	83.39	80.04	73.86	64.50	50.38	26.92	-10.95
233.6	94.51	93.91	90.4	75.47	82.05	80.55	84.35	82.35	76.38	67.25	54.32	33.07	-1.04
231.3	94.91	94.11	90.0	73.19	80.68	84.45	84.54	83.41	77.42	69.19	57.17	37.57	9.29
250.1	95.51	94.61	90.1	73.10	79.69	83.93	85.04	84.05	79.08	71.01	54.68	41.36	12.25
271.2	95.11	94.11	89.3	71.45	78.19	82.68	84.09	83.64	79.01	71.50	60.71	43.78	15.97
272.1	95.11	93.91	88.0	71.37	77.43	81.49	83.15	83.44	79.49	72.40	62.03	45.48	19.39
285.1	94.41	93.21	86.9	71.95	76.94	80.77	82.26	82.54	79.04	72.27	62.23	46.28	21.21
286.3	93.91	92.61	87.4	71.49	76.62	80.18	81.72	81.61	78.16	72.08	62.49	46.80	22.52
282.9	93.31	92.61	86.9	71.63	75.93	79.79	81.37	81.00	77.62	71.69	62.08	46.43	23.23
273.1	93.11	91.71	86.8	71.59	75.90	79.67	80.99	80.78	77.32	71.31	61.83	46.91	23.61
265.7	92.71	91.31	86.2	70.92	75.37	79.47	80.50	80.42	76.97	70.97	61.56	46.78	23.71
260.0	92.11	90.71	85.5	70.61	75.11	79.44	79.71	79.68	76.43	70.81	61.43	46.69	23.70
265.7	91.61	90.21	85.1	70.21	74.69	78.18	79.14	79.26	76.91	70.10	60.69	45.91	22.84
273.1	91.71	89.81	84.6	69.86	74.11	77.72	78.56	78.89	75.79	71.05	60.57	45.65	22.35
262.9	90.81	89.41	84.2	69.30	73.86	77.45	78.19	78.45	75.50	70.78	60.17	45.02	21.32
266.1	90.21	88.81	83.7	67.70	73.10	76.42	77.47	78.13	75.04	70.80	59.01	43.52	19.24
255.1	89.71	88.41	83.1	66.97	71.55	75.44	77.04	77.94	74.51	70.16	59.11	42.10	17.10

RUN NUMBER	188.00 (RIG.00)
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	NONE
PRIMARY TEMPERATURE (IN)	1250.000
SECONDARY TEMPERATURE (IN)	NONE
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	NONE
VELOCITY RATIO	NONE
PRIMARY VELOCITY (FT/SEC)	1863.510
MASS FLOW RATIO	NONE
PRIMARY MASS FLOW (LB/SEC)	.218
THRUST (LBS)	12.636
ENVIRONMENTAL TEMPERATURE (R)	573.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	15.000
CALIBRATION FACTOR (MV TO GV/SU CM)	.159
INSTRUMENTATION NOISE FLOOR (DB)	73.591

JUSTICE POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
			THRUST	POWER LEVEL (DB)
OVERALL	3.22391E+01	145.1		
500	1.78513E-02	112.5	10000	174.1
1000	1.65694E-01	122.2	20000	177.1
2000	1.47886E+00	131.7	40000	180.1
4000	6.23275E+00	137.9	80000	183.1
8000	1.23852E+01	140.9		
16000	8.53071E+00	139.3		
31500	3.42801E+00	135.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	89.4	96.7	101.0	102.2	102.8	100.6	98.3	108.6
20.0	90.5	99.1	104.9	108.2	110.1	109.4	105.7	115.2
25.0	89.8	99.6	107.3	111.7	114.8	114.2	109.2	119.4
30.0	89.1	99.3	108.6	113.1	116.0	115.6	110.6	120.6
35.0	88.6	99.1	108.8	113.7	116.3	115.5	110.9	120.9
40.0	88.6	98.2	108.9	115.1	117.7	116.2	111.4	121.9
45.0	86.0	96.6	108.0	114.9	116.8	113.9	109.1	120.7
50.0	83.3	93.8	105.5	113.5	116.5	112.7	108.4	119.8
55.0	80.9	92.0	103.1	111.9	116.0	112.7	108.2	119.2
60.0	80.3	90.6	100.0	106.5	112.8	111.2	107.6	118.6
65.0	78.8	87.1	96.5	104.3	108.9	109.2	106.3	113.7
70.0	78.0	86.5	94.2	101.4	105.8	106.4	104.2	111.0
75.0	76.0	85.4	92.8	98.8	103.6	105.2	104.0	109.6
80.0	76.0	85.0	92.8	98.3	102.4	103.1	101.7	108.0
85.0	77.1	84.5	92.4	97.8	101.3	102.3	101.2	107.1
90.0	77.1	85.4	92.2	96.7	100.6	101.6	100.6	106.4
95.0	77.1	85.0	91.8	95.9	99.3	100.1	99.5	105.2
100.0	76.1	84.1	91.1	95.3	98.8	100.2	98.9	104.9
105.0	76.1	83.6	90.6	94.6	98.0	99.4	98.5	104.2
110.0	77.1	83.6	90.1	94.0	97.5	99.2	98.2	103.9
115.0	74.4	82.0	89.1	93.5	96.8	94.2	97.9	103.5

MODEL THRUST = 12.636 FULL SCALE THRUST = 20000.000

L	PND8	OASPL	12.6	OCTAVE 25.1	BAND 50.3	SOUND 100.5	PRESSURE 201.1	LEVELS 402.2	741.8	1583.5	3141.9	6283.8	12567.6
1795.4	87.21 (85.9)	85.0	86.64	73.96	78.25	79.25	79.38	75.73	70.41	58.97	38.13	.01	-65.04
1385.7	97.91 (96.3)	94.0	70.19	78.80	84.52	87.77	89.31	87.48	81.12	71.73	55.22	25.65	-24.31
1049.3	104.71 (102.8)	100.1	71.38	81.19	88.77	93.16	95.95	94.50	87.29	79.12	65.19	40.69	-1.31
1000.0	108.01 (105.8)	103.0	72.15	82.34	91.56	95.47	98.64	97.51	90.73	83.36	71.12	49.95	14.83
815.2	104.71 (107.2)	104.6	72.84	83.30	92.94	97.81	100.22	98.79	92.60	85.79	74.74	55.89	24.69
733.6	111.71 (109.1)	106.7	72.75	83.44	94.03	100.20	102.60	100.51	94.71	88.31	78.12	60.99	33.00
721.3	111.01 (109.3)	106.4	71.99	82.59	93.98	100.81	102.52	99.10	93.07	86.98	77.45	61.60	35.49
658.1	111.11 (108.3)	106.2	69.83	80.49	94.19	100.17	102.94	98.72	93.21	87.36	78.13	63.47	39.50
631.7	111.21 (108.3)	106.1	68.23	79.25	90.43	99.09	103.63	99.33	93.74	88.07	79.43	69.34	42.73
732.1	104.91 (106.5)	104.1	68.07	77.42	87.78	96.14	100.39	98.32	93.66	88.14	79.81	66.31	44.77
655.1	108.11 (104.5)	101.5	67.02	75.31	84.70	92.42	98.87	96.75	92.88	87.67	79.38	68.35	45.63
1596.3	104.01 (102.1)	99.1	66.50	74.95	82.64	89.79	94.06	94.35	91.10	85.78	77.86	65.19	45.10
1552.9	105.21 (101.0)	98.8	66.74	74.09	81.44	87.51	92.19	91.36	91.24	85.98	78.20	65.79	40.16
1523.1	103.61 (99.5)	96.6	66.91	73.85	81.45	87.13	91.13	91.63	89.11	83.89	76.20	63.97	44.66
1505.7	102.41 (98.8)	95.4	66.10	73.53	81.36	86.74	90.11	90.75	84.73	83.54	75.90	63.78	44.66
1500.0	102.31 (98.1)	95.2	66.13	74.34	81.23	85.72	89.45	90.08	88.14	82.96	75.34	63.25	44.19
1505.7	101.11 (96.8)	94.0	66.10	73.95	80.75	84.84	88.10	88.54	87.17	81.84	74.24	62.12	42.99
1573.1	100.41 (95.5)	93.5	64.97	72.94	79.99	84.11	87.51	88.53	86.32	81.10	73.41	61.18	41.07
1552.9	99.71 (95.0)	92.6	64.80	72.14	74.35	81.25	84.53	85.55	83.45	78.47	72.07	60.26	40.44
1544.3	99.11 (95.0)	92.4	65.54	72.11	78.42	84.41	84.21	87.64	84.15	74.83	71.01	59.74	39.15
1654.1	98.51 (94.4)	91.3	63.69	74.21	77.71	81.51	84.76	84.75	84.49	79.08	70.99	57.96	37.24

MIN MINIM	189.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (W)	1236.000
SECONDARY TEMPERATURE (W)	585.000
PRIMARY PRESSURE (HATU)	2.500
AREA RATIO	1.000
VELOCITY RATIO	0.393
PRIMARY VELOCITY (FT/SEC)	1853.044
MASS FLOW RATIO	0.777
PRIMARY MASS FLOW (LH/SEC)	0.220
THRUST (LBS)	16.527
ENVIRONMENTAL TEMPERATURE (R)	569.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	10.000
CALIBRATION FACTOR (HV TO DY/50 CM)	0.126
INSTRUMENTATION NOISE FLOOR (DB)	71.507

ISIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.33347E+01	143.7	THRUST	POWER LEVEL (DB)
500	3.84755E-02	115.9	18000	171.5
1000	3.16787E-01	125.0	20000	174.5
2000	1.81779E-00	132.0	40000	177.5
4000	4.64470E+00	136.7	80000	180.5
8000	7.88755E+00	139.0		
16000	6.16754E+00	137.9		
31500	2.99240E+00	133.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	OVER
		1000	2000	4000	8000	16000		ALL
15.0	93.8	100.9	104.0	104.1	103.9	102.4	97.0	110.5
20.0	94.1	102.3	107.0	109.6	111.3	110.6	104.7	116.2
25.0	94.0	103.0	109.2	111.5	113.6	112.9	106.7	118.6
30.0	93.0	102.8	109.7	111.9	114.0	113.4	108.5	119.1
35.0	92.5	102.0	110.0	112.9	114.0	113.3	109.5	119.4
40.0	90.3	100.6	109.7	113.7	114.8	114.1	110.1	120.0
45.0	88.7	98.7	108.0	113.2	115.0	113.4	109.0	119.5
50.0	86.9	96.8	106.0	112.0	114.7	112.5	107.9	118.7
55.0	85.3	94.6	103.2	109.9	113.5	111.2	106.9	117.2
60.0	82.5	91.2	100.0	106.5	110.7	109.6	106.0	114.9
65.0	81.1	89.0	98.0	103.2	107.3	107.3	105.1	112.2
70.0	80.1	87.6	96.0	100.3	104.6	105.2	103.0	109.9
75.0	79.5	86.9	94.5	98.7	103.0	103.7	101.9	108.4
80.0	79.5	85.0	92.9	97.7	101.5	101.5	99.6	106.6
85.0	78.9	86.3	92.2	96.7	100.6	100.5	98.6	105.7
90.0	78.9	85.8	91.5	95.7	99.0	99.2	97.2	104.4
95.0	78.3	85.5	90.8	94.7	98.1	98.4	97.2	103.6
100.0	77.6	84.8	90.8	94.4	97.8	98.7	96.6	103.5
105.0	76.8	83.7	88.9	93.4	96.8	98.3	96.2	102.8
110.0	76.8	83.0	89.1	93.1	96.3	97.9	96.1	102.4
115.0	76.0	82.1	88.6	93.0	95.7	98.2	95.9	102.3

MODEL THRUST = 16.527 FULL SCALE THRUST = 20000.000

L.	PROR.	OASPL	OCTAVE		BAND	SOUND	PRESSURE	LEVELS					
			14.4	28.7	57.5	115.0	230.0	459.9	905.5	1811.0	3593.3	7186.6	14373.1
95.6	87.31 (86.5)	85.9	69.97	76.96	80.04	79.93	79.17	75.88	66.36	53.50	30.04	-12.48	-83.96
85.7	97.31 (96.2)	93.8	72.61	80.84	85.51	86.94	89.13	87.18	78.11	67.64	49.16	16.25	-38.57
49.3	102.31 (100.7)	98.2	74.34	83.61	89.58	91.67	93.45	91.69	82.93	73.89	58.35	31.15	-13.78
80.0	104.91 (102.9)	100.2	74.88	84.66	91.48	93.63	95.34	93.91	86.83	78.73	65.13	41.68	3.23
15.2	106.71 (104.4)	101.8	75.57	85.07	92.07	95.77	98.66	95.19	89.46	82.01	69.77	48.94	15.04
33.6	108.61 (106.1)	103.5	76.35	86.66	93.65	97.66	100.47	97.08	91.37	84.40	73.16	54.25	23.68
21.3	108.91 (106.4)	103.9	73.53	83.59	92.81	97.95	100.51	97.28	91.61	84.80	74.31	59.84	28.78
58.1	108.91 (106.3)	103.8	72.44	82.31	91.56	97.44	100.92	97.18	91.11	84.78	74.87	58.51	32.38
31.2	108.31 (105.5)	102.9	71.39	80.70	89.33	95.98	99.32	96.47	90.90	84.78	75.32	59.83	35.19
32.1	107.01 (103.9)	101.0	69.07	77.77	86.64	93.05	97.09	95.48	90.62	84.64	75.56	60.75	37.29
55.1	105.41 (101.9)	98.0	64.12	75.48	85.00	90.09	94.04	91.61	86.15	80.32	75.48	61.19	38.64
96.3	103.81 (100.0)	96.9	67.42	78.45	87.30	97.54	101.66	91.45	86.51	82.79	74.15	60.27	38.41
52.9	102.51 (98.7)	95.6	67.09	78.44	87.08	96.15	100.34	90.59	87.62	81.97	73.49	59.90	34.55
23.1	100.71 (97.0)	93.9	67.26	73.78	80.64	85.34	89.97	88.60	85.54	79.95	71.57	59.19	37.19
05.7	99.81 (96.1)	93.1	66.76	74.16	79.97	84.61	89.22	87.68	84.64	79.08	70.76	57.49	30.70
00.0	98.71 (94.9)	91.9	66.80	73.32	79.33	83.49	86.63	86.37	83.76	78.21	69.91	56.69	35.44
05.7	97.91 (94.0)	91.1	66.12	73.24	78.59	82.50	85.70	85.54	83.23	77.67	69.35	56.08	35.29
23.1	97.71 (94.0)	90.6	65.35	72.84	78.48	82.75	85.73	85.70	83.55	78.49	69.61	55.22	34.73
52.9	96.91 (93.1)	89.9	64.40	71.30	76.42	80.49	84.12	83.15	81.94	76.32	67.83	54.25	32.90
96.3	96.31 (92.5)	89.3	64.16	70.27	76.41	80.40	83.36	84.51	81.53	75.81	67.17	53.29	31.43
55.1	95.81 (92.2)	88.8	63.07	69.09	75.62	79.93	82.49	84.46	81.00	75.18	66.34	52.05	29.50

RUN NUMBER	190.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	1240.000
SECONDARY TEMPERATURE (R)	570.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	1.000
VELOCITY RATIO	0.576
PRIMARY VELOCITY (FT/SEC)	1056.000
MASS FLOW RATIO	1.382
PRIMARY MASS FLOW (LB/SEC)	0.220
THRUST (LBS)	22.777
ENVIRONMENTAL TEMPERATURE (R)	566.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	21.000
CALIBRATION FACTOR (INV TO DY/SQ CM)	0.126
INSTRUMENTATION NOISE FLOOR (DB)	71.597

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.36568E+01	143.7	THRUST	POWER LEVEL (DB)
500	5.34960E-02	117.3	10000	170.2
1000	4.73926E-01	126.8	20000	173.2
2000	2.51035E+00	134.0	40000	176.2
4000	6.26450E+00	138.0	80000	179.2
8000	7.30044E+00	139.6		
16000	4.85725E+00	136.9		
31500	2.19441E+00	133.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.3	102.7	103.9	103.7	101.7	98.7	92.5	109.7
20.0	95.8	103.9	106.0	109.0	109.8	107.3	100.3	115.2
25.0	95.2	104.7	110.6	113.0	112.4	109.5	103.6	118.0
30.0	94.9	104.7	111.0	113.6	113.0	110.2	105.9	118.7
35.0	93.4	103.9	111.4	114.7	114.0	111.6	107.2	119.6
40.0	91.7	103.0	111.1	114.6	114.1	112.0	106.2	119.6
45.0	89.8	100.4	109.7	114.5	114.4	112.0	104.5	119.5
50.0	88.3	98.0	107.5	113.3	114.3	112.1	102.1	118.9
55.0	85.5	95.5	105.1	111.5	114.0	111.7	107.4	118.0
60.0	83.6	92.8	101.9	107.5	110.2	109.3	106.3	115.8
65.0	82.0	90.3	98.2	104.2	107.5	107.6	104.9	112.6
70.0	81.1	89.2	96.1	101.6	104.9	105.5	103.4	110.3
75.0	81.1	87.9	94.9	99.8	103.0	103.5	101.8	108.5
80.0	80.6	87.4	94.0	99.1	102.0	102.5	100.7	107.5
85.0	80.6	87.4	93.6	97.8	100.9	101.4	100.2	106.6
90.0	80.6	87.1	92.6	96.7	99.4	99.7	99.4	105.3
95.0	80.1	86.6	92.3	96.0	99.8	99.5	99.9	104.8
100.0	79.5	85.5	91.5	95.6	99.3	99.5	99.5	104.5
105.0	78.9	84.8	90.8	94.7	97.2	99.3	99.3	104.0
110.0	78.3	84.1	90.0	94.0	96.6	98.9	98.2	103.6
115.0	77.6	83.4	89.5	93.4	96.1	99.2	98.0	103.4

MODEL THRUST = 22.777 FULL SCALE THRUST = 70000.000

L.	PNDG.	OASPL	16.9	OCTAVE 33.7	BAND 67.5	SOUND 135.0	PRESSURE 270.0	LEVELS 540.0	1083.0	2126.1	4218.4	8436.8	16873.2
795.6	84.01	83.41	83.9	70.01	77.40	78.49	75.28	70.10	58.86	44.04	17.04	-31.24	-110.87
385.7	94.41	93.51	91.6	72.98	81.06	85.08	85.51	86.07	81.94	71.11	59.17	38.01	-74 -60.25
549.7	99.51	98.31	96.3	74.18	83.65	89.50	91.73	90.64	86.49	77.65	67.21	49.51	10.79 -31.15
800.0	102.31	100.81	98.6	75.35	85.14	91.40	93.88	92.86	89.58	82.04	72.92	57.50	31.06 -11.61
615.2	104.81	103.01	100.7	75.03	85.49	92.96	96.14	95.17	91.76	85.08	76.75	62.92	29.49 -1.91
333.6	106.31	104.21	101.7	74.35	85.58	93.72	97.04	96.30	93.31	87.43	79.67	67.01	45.77 11.92
121.3	107.31	105.01	102.4	73.27	83.48	93.12	97.78	97.43	94.22	89.92	81.59	69.81	50.23 19.18
958.1	107.81	105.41	102.5	72.42	82.17	91.60	97.30	98.10	95.14	89.46	82.47	71.36	53.06 24.17
831.2	107.81	105.21	102.2	70.29	80.23	89.42	96.74	98.36	95.40	89.51	82.78	72.20	54.89 27.48
732.1	105.51	102.61	99.5	68.83	77.98	87.10	92.57	95.04	93.54	89.97	82.44	72.27	55.73 24.43
655.1	104.11	100.91	97.5	67.65	75.92	83.76	89.76	92.93	92.25	89.07	81.70	71.84	55.91 31.03
586.3	102.41	99.01	95.6	67.04	75.10	82.00	87.45	90.47	90.48	87.04	80.79	71.18	55.71 31.40
552.9	100.91	97.41	94.1	67.28	74.04	81.04	85.94	89.08	89.75	85.71	79.55	70.12	54.98 31.45
523.1	100.21	96.71	93.3	66.96	73.72	80.34	85.33	89.07	87.95	84.81	78.70	69.39	54.49 31.35
505.7	99.41	95.81	92.4	67.06	73.87	80.04	84.10	87.01	87.01	84.41	78.33	69.10	54.34 31.42
500.0	98.41	94.41	91.2	67.09	73.40	79.37	83.43	85.62	85.30	83.69	77.63	68.42	53.70 30.87
505.7	97.81	94.01	90.7	66.53	73.04	78.73	82.76	84.40	85.10	83.14	77.07	67.94	53.87 31.16
523.1	97.31	93.61	90.2	65.87	71.74	77.50	81.44	84.30	84.44	82.49	76.48	67.17	52.27 29.13
552.9	96.71	93.01	89.5	65.10	70.47	76.91	80.41	83.05	84.56	82.27	76.10	66.67	51.54 28.00
596.3	96.01	92.31	88.4	64.22	70.04	75.88	79.46	82.21	83.94	81.85	75.60	65.99	50.51 26.41
655.1	95.51	91.91	88.2	63.21	69.97	75.14	79.91	81.30	83.86	81.22	74.45	65.00	49.00 24.14

RUN NUMBER	101.000
AIRAL POSITION OF PRIMARY WHT. SECONDARY (INCH.)	0.000
PRIMARY TEMPERATURE (IN)	1234.000
SECONDARY TEMPERATURE (IN)	557.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	2.007
VELOCITY RATIO	0.383
PRIMARY VELOCITY (FT/SEC)	1054.543
MASS FLOW RATIO	1.033
PRIMARY MASS FLOW (LB/SEC)	220
THRUST (LBS)	21.600
ENVIRONMENTAL TEMPERATURE (IN)	563.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	21.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.126
INSTRUMENTATION NOISE FLOOR (DB)	71.587

SUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.62737E+01	144.2	THRUST	POWER LEVEL (DB)
500	3.39716E-02	115.3	10000	170.9
1000	2.68489E-01	124.6	20000	173.9
2000	1.57524E+00	132.0	40000	176.9
4000	3.91942E+00	135.9	80000	179.9
8000	7.94634E+00	139.0		
16000	8.42185E+00	139.3		
31500	4.08836E+00	136.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	93.6	101.1	106.0	108.1	109.3	109.9	104.5	114.9
20.0	93.7	102.7	107.4	109.2	112.4	113.9	109.4	118.2
25.0	92.8	102.7	108.6	110.1	113.0	114.7	110.6	119.1
30.0	92.7	102.4	109.1	111.0	113.7	115.1	110.4	119.5
35.0	91.1	101.0	108.9	111.3	113.7	114.9	111.9	119.7
40.0	90.0	100.0	108.4	112.2	114.1	115.7	111.6	119.8
45.0	87.6	97.8	107.0	111.0	114.3	113.8	109.9	119.1
50.0	86.1	95.8	105.2	111.4	114.3	113.2	109.4	118.7
55.0	84.0	93.8	103.0	109.9	113.9	112.5	108.9	117.9
60.0	83.2	91.6	100.0	106.6	111.2	110.8	108.6	115.8
65.0	81.1	89.5	97.8	104.0	108.6	109.1	107.2	113.8
70.0	80.6	88.3	95.2	101.1	106.1	107.1	105.8	111.7
75.0	80.1	87.4	94.2	99.4	104.2	105.5	104.5	110.1
80.0	79.5	86.9	93.6	98.7	102.8	103.8	102.4	108.5
85.0	78.9	86.0	92.8	97.9	102.0	102.6	100.7	107.3
90.0	78.3	85.5	91.7	96.7	100.5	101.3	100.2	106.2
95.0	78.3	85.1	91.3	95.4	99.4	100.1	99.3	105.2
100.0	77.6	84.5	90.6	95.0	98.4	99.4	98.4	104.5
105.0	76.8	83.4	90.2	94.2	97.7	98.7	97.2	104.1
110.0	76.0	83.4	89.3	93.7	96.9	97.9	96.2	103.6
115.0	75.1	82.1	88.6	93.3	96.0	97.4	96.6	102.9

MODEL THRUST = 21.600 FULL SCALE THRUST = 20000.000

L.	PHOB.	OASPL	OCTAVE		RAND	SOUND			PRESSURE			LEVELS		
			16.4	32.9	65.7	131.5	262.9	525.8	1075.2	2070.4	4107.9	8215.9	16431.7	
1795.6	91.51	90.61	88.2	68.58	76.05	80.87	80.74	83.16	81.74	71.37	56.89	30.51	-16.78	-95.03
1385.7	98.71	97.41	94.0	71.12	80.06	84.75	86.32	88.98	88.85	80.65	68.97	48.28	11.76	-48.19
1549.3	102.21	100.51	96.9	72.00	81.91	87.77	89.06	91.52	92.01	84.83	74.80	57.48	27.39	-21.73
1068.8	104.51	102.61	99.1	73.34	83.62	89.71	91.49	93.78	94.12	86.89	77.95	62.85	36.92	-5.03
1615.2	106.41	104.11	100.5	73.00	82.83	90.75	93.03	95.12	95.35	90.08	81.90	68.35	45.37	8.41
1333.6	107.71	105.11	101.7	72.85	82.83	91.21	94.91	96.51	96.32	91.23	83.60	71.19	50.36	17.09
1121.3	107.81	105.21	102.1	71.29	81.48	90.71	95.50	97.58	96.35	90.62	83.42	71.86	52.65	22.11
1958.1	108.71	105.41	102.4	70.50	80.16	89.54	95.68	98.32	96.48	91.00	84.12	73.22	55.26	26.83
1831.7	108.21	105.31	102.3	68.94	78.74	87.93	94.74	98.52	96.51	91.31	84.68	72.38	57.39	30.53
1732.1	107.11	103.91	100.6	68.70	77.07	85.47	91.96	96.37	95.29	91.59	85.17	75.18	58.94	33.45
1655.1	105.41	102.31	99.9	68.96	75.41	83.67	89.72	94.15	94.03	90.76	84.49	74.81	59.16	35.67
1596.3	104.31	100.61	97.2	66.78	74.49	81.37	87.16	91.96	92.43	89.88	83.52	74.08	58.88	35.16
1552.9	103.11	99.31	95.9	66.49	73.78	80.53	86.18	90.35	91.01	88.71	82.63	73.77	58.50	35.33
1523.1	101.61	97.91	94.5	66.10	73.44	79.18	85.71	89.10	89.51	86.88	80.86	71.72	57.89	34.30
1505.7	100.41	96.01	93.4	65.60	72.71	79.42	84.49	88.34	88.44	85.74	79.76	70.18	55.68	33.12
1500.0	99.41	95.61	92.3	64.94	72.15	78.34	83.27	86.97	87.17	84.84	78.87	69.82	55.36	32.98
1505.7	98.31	94.51	91.3	64.96	71.40	77.96	82.48	85.76	85.92	83.66	77.88	68.86	54.28	31.74
1525.1	97.61	93.71	90.4	64.16	71.03	77.12	81.44	84.71	85.17	83.22	77.20	68.06	53.42	30.64
1552.9	97.31	92.91	89.8	63.24	69.75	76.55	80.84	83.45	84.21	83.42	77.35	68.04	53.21	29.05
1566.3	96.71	92.11	89.0	62.17	69.51	75.46	79.72	82.76	83.19	83.12	76.96	67.52	52.32	28.40
1659.1	95.61	91.11	88.0	60.94	67.92	74.65	79.01	81.69	82.34	82.10	75.82	66.14	50.50	24.01

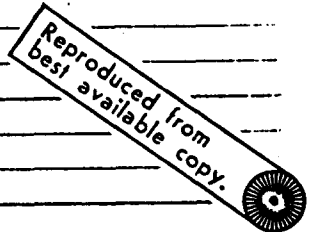
RUN NUMBER	= 192.00 (H17.00)
AIRIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (IN)	= 1240.000
SECONDARY TEMPERATURE (IN)	= 553.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= 1.504
PRIMARY VELOCITY (FT/SEC)	= 1056.040
MASS FLOW RATIO	= 2.446
PRIMARY MASS FLOW (LBS/SEC)	= 220
THRUST (LBS)	= 31.725
ENVIRONMENTAL TEMPERATURE (IN)	= 557.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	= 27.000
CALIBRATION FACTOR (MV TO DY/50 CH)	= .159
INSTRUMENTATION NOISE FLOOR (DB)	= 73.591

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
			THRUST	POWER LEVEL (DB)
OVERALL	3.79767E+01	145.8	10000	170.4
500	8.10369E-02	119.1	20000	173.8
1000	6.54054E-01	129.2	40000	176.8
2000	3.35899E+00	135.3	80000	179.8
4000	7.22179E+00	138.6		
8000	1.18162E+01	140.7		
16000	1.01025E+01	140.0		
31500	4.74213E+00	136.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.1	104.1	109.5	104.0	110.7	108.9	103.4	116.2
20.0	97.8	106.5	110.7	112.0	113.0	111.9	106.6	119.9
25.0	96.9	106.7	111.4	113.5	115.0	115.1	109.8	120.9
30.0	96.4	106.2	112.9	114.2	116.6	116.1	111.6	121.6
35.0	95.7	105.0	112.5	114.5	116.2	115.7	111.6	121.6
40.0	93.1	103.1	111.6	114.8	114.3	115.6	112.1	121.5
45.0	90.5	101.0	110.3	114.6	115.6	114.4	111.5	120.9
50.0	89.6	99.3	109.3	113.4	115.1	113.0	110.3	119.8
55.0	87.3	96.8	105.6	111.7	114.5	112.9	109.7	118.8
60.0	85.2	94.4	103.2	108.8	112.6	111.8	109.0	117.0
65.0	84.0	92.3	101.0	106.9	110.7	110.2	108.0	115.4
70.0	83.1	90.8	98.1	103.8	107.7	108.0	105.8	112.4
75.0	82.6	89.6	96.7	102.4	106.3	107.1	104.3	111.8
80.0	82.1	89.4	96.0	101.0	104.4	104.9	103.6	110.0
85.0	82.1	88.1	94.9	99.6	103.2	103.6	102.2	108.6
90.0	80.9	86.1	93.6	98.3	102.2	102.4	102.3	108.1
95.0	81.5	87.5	93.5	98.0	101.3	102.0	101.5	107.2
100.0	80.3	86.8	93.1	97.3	100.4	101.4	100.7	106.5
105.0	79.6	86.5	92.4	96.7	99.7	101.7	101.4	106.5
110.0	78.8	85.7	92.0	96.0	99.2	101.4	101.1	106.1
115.0	78.8	84.5	91.1	95.7	98.4	100.7	100.7	105.5



MODEL THRUST = 31.725 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS											
			10.9	39.8	79.7	159.3	318.6	637.2	1254.6	2509.2	4978.5	9957.0	19914.0	
8795.6	90.91 (90.3)	88.1	71.38	77.34	82.65	81.75	82.52	78.86	66.24	49.07	17.94	-36.89	-125.46	
2585.7	97.21 (96.4)	93.4	73.54	82.16	86.27	87.38	88.44	84.50	74.39	60.66	36.38	-5.85	-73.60	
3549.3	101.8 (100.6)	97.1	74.45	84.71	88.41	90.40	92.43	90.15	80.93	69.24	49.82	14.28	-41.13	
3000.0	104.7 (103.2)	94.6	75.40	85.15	91.80	92.90	94.81	92.92	85.23	74.90	57.34	27.51	-19.79	
2615.2	106.1 (104.3)	100.8	75.94	85.19	92.68	94.52	95.76	94.06	87.09	77.69	62.00	35.61	-9.80	
2333.6	107.4 (105.4)	101.8	74.32	84.25	92.73	95.42	96.85	95.13	84.06	80.36	66.03	42.16	-4.70	
2121.3	107.8 (105.6)	102.0	72.50	83.00	92.29	96.45	97.12	95.31	89.65	81.46	64.16	46.19	11.87	
1958.1	107.7 (105.5)	101.8	72.32	82.65	90.97	95.92	97.31	95.13	89.44	81.65	69.15	48.64	14.73	
1831.2	107.6 (105.2)	101.3	70.56	80.08	88.83	94.45	97.38	94.89	89.70	82.22	70.34	50.96	20.92	
1732.1	106.5 (103.8)	99.9	69.03	78.13	86.45	92.46	95.69	94.31	89.61	82.38	70.47	52.48	23.91	
1655.1	105.5 (102.6)	98.8	68.21	74.44	85.16	90.91	94.47	93.22	89.19	82.14	71.11	53.30	25.57	
1596.3	103.4 (100.3)	96.4	67.61	75.25	82.55	88.18	91.77	91.32	87.41	80.51	69.76	52.48	25.91	
1552.9	102.8 (99.6)	95.6	67.35	74.36	81.35	87.02	90.62	90.73	87.24	80.44	69.90	53.02	27.09	
1523.1	101.2 (97.9)	94.0	66.99	74.24	80.40	85.79	88.87	88.69	85.80	79.07	68.68	52.04	26.57	
1504.7	100.0 (96.7)	92.8	67.09	73.05	79.40	84.47	87.79	87.54	84.44	77.76	67.45	50.99	25.75	
1500.0	99.9 (96.1)	92.3	65.97	73.04	79.63	84.18	86.80	86.77	84.66	77.49	67.71	51.30	26.15	
1505.7	94.9 (95.7)	91.3	66.53	72.65	78.45	82.47	85.91	85.91	82.78	77.10	66.79	54.32	25.09	
1523.1	98.0 (94.3)	90.5	65.19	71.70	77.00	82.05	84.86	85.16	82.83	76.11	65.72	49.09	23.60	
1552.9	95.1 (94.3)	90.3	64.33	71.19	77.08	81.34	84.08	85.10	82.33	76.53	64.00	49.11	23.14	
1596.3	97.3 (93.6)	89.6	63.33	70.23	76.43	80.40	83.28	84.70	82.71	75.81	65.06	47.78	21.21	
1655.1	96.3 (92.6)	88.6	63.02	69.75	75.25	79.75	82.15	83.74	81.47	74.82	63.79	45.99	14.55	

NUM PRIM-FM	=	103.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (IN.)	=	0.000
PRIMARY TEMPERATURE (IN)	=	1237.000
SECONDARY TEMPERATURE (IN)	=	940.000
PRIMARY PRESSURE (ATM)	=	2.500
AREA RATIO	=	4.846
VELOCITY RATIO	=	.374
PRIMARY VELOCITY (FT/SEC)	=	1853.704
MASS FLOW RATIO	=	3.790
PRIMARY MASS FLOW (LB/SEC)	=	.229
THRUST (LBS)	=	31.031
ENVIRONMENTAL TEMPERATURE (IN)	=	954.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	=	26.000
CALIBRATION FACTOR (MW TO DY/50 CH)	=	.100
INSTRUMENTATION NOISE FLOOR (DB)	=	69.579

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.39189E+01	141.4	THRUST	POWER LEVEL (DB)
500	6.78063E-02	118.3	10000	166.5
1000	3.80327E-01	125.8	20000	149.5
2000	1.35140E+00	131.3	40000	172.5
4000	2.74519E+00	134.4	80000	175.5
8000	4.68901E+00	136.7		
16000	3.50753E+00	135.5		
31500	1.17628E+00	130.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	96.0	103.1	105.2	104.9	106.0	103.7	93.8	111.9
20.0	97.2	104.4	107.5	108.3	109.0	106.1	96.1	110.5
25.0	98.9	104.3	108.4	109.0	109.7	107.1	98.1	115.2
30.0	95.5	103.9	108.5	109.7	111.2	109.6	102.0	116.3
35.0	93.8	102.4	108.5	110.6	112.3	111.5	105.3	117.4
40.0	92.0	100.6	107.9	111.0	113.0	112.4	107.0	118.0
45.0	90.0	98.3	106.0	110.8	113.0	111.8	106.9	117.5
50.0	87.6	95.9	103.4	109.1	112.0	110.0	104.7	116.0
55.0	85.8	93.2	100.9	106.9	110.9	108.7	104.1	114.6
60.0	84.4	91.6	99.2	104.5	108.4	107.2	103.6	112.6
65.0	82.9	89.9	96.3	101.2	106.0	104.7	102.0	109.8
70.0	83.2	89.1	96.9	98.8	102.0	102.3	100.1	107.4
75.0	82.6	88.1	93.5	97.5	100.4	100.7	99.5	106.0
80.0	82.0	87.0	92.5	96.1	99.1	99.0	97.2	104.5
85.0	81.2	86.8	91.9	95.3	97.9	97.8	96.7	103.5
90.0	80.8	86.1	90.9	94.6	96.7	95.9	95.4	102.2
95.0	80.0	85.6	90.8	94.0	96.2	95.9	94.9	101.8
100.0	79.1	84.6	89.7	93.0	95.0	95.0	94.6	101.0
105.0	79.1	83.7	88.9	92.4	94.4	95.6	94.2	100.7
110.0	78.6	83.7	88.4	91.5	93.4	95.5	94.1	100.3
115.0	78.1	83.1	87.8	91.3	93.0	95.4	93.8	100.0

MODEL THRUST = 31.031 FULL SCALE THRUST = 20000.000

L.	PROB.	OASPL	19.7	OCTAVE 39.4	BAND 78.8	SOUND 157.6	PRESSURE 315.1	LEVELS 630.2	1260.8	2511.5	4923.7	9847.4	19654.8
795.6	86.0 (85.6)	84.3	71.35	76.41	78.66	77.85	77.92	72.97	56.84	39.83	9.00	-45.38	-133.34
885.7	92.0 (91.4)	89.5	72.97	80.19	83.18	83.70	83.75	78.80	64.12	50.52	26.46	-15.42	-82.71
949.3	95.3 (94.4)	92.1	74.57	81.93	85.07	86.35	86.41	82.71	69.38	57.81	37.76	3.30	-51.74
1000.0	98.8 (97.6)	94.6	74.62	82.99	87.50	88.50	89.51	86.61	75.73	65.48	48.07	18.48	-28.50
115.2	101.7 (100.2)	96.8	74.12	82.67	88.76	90.69	91.94	89.94	80.92	71.59	56.04	29.85	-11.49
333.6	103.7 (101.9)	98.4	73.24	81.84	89.16	92.09	93.74	92.00	84.13	75.49	61.29	37.00	.39
121.3	104.5 (102.5)	98.8	72.10	80.41	88.07	92.79	94.57	92.38	85.11	76.98	63.80	41.99	7.49
958.1	103.8 (101.8)	98.1	70.44	78.67	86.19	91.77	94.32	91.44	84.06	76.33	63.93	43.57	11.86
831.7	103.3 (101.1)	97.3	69.22	76.58	84.74	90.16	93.95	90.83	84.26	76.83	65.04	45.81	15.96
732.1	102.1 (99.5)	95.7	68.25	75.52	83.03	88.22	91.80	89.87	84.40	77.22	65.90	47.54	19.15
655.1	99.8 (96.9)	93.3	67.22	74.18	80.56	85.17	88.86	87.70	83.25	76.35	65.60	47.73	20.67
596.3	96.0 (95.0)	91.2	67.74	73.73	79.62	83.21	86.21	85.80	81.63	74.47	64.31	47.16	20.76
552.9	97.0 (93.8)	90.1	67.45	72.94	78.24	82.10	84.84	84.47	81.55	74.80	64.34	47.57	21.41
523.1	95.5 (92.3)	88.7	66.95	71.95	77.49	81.01	83.72	82.93	79.48	72.79	62.48	45.98	20.65
505.7	94.8 (91.4)	87.9	66.33	71.84	76.95	80.31	82.65	81.46	78.69	72.45	62.22	45.87	20.79
500.0	93.5 (90.0)	86.6	65.98	71.22	76.01	79.56	81.42	79.96	77.84	71.24	61.03	44.74	19.75
505.7	93.0 (89.6)	86.2	65.12	70.71	75.43	78.94	80.49	79.92	77.31	70.67	60.44	44.09	19.07
523.1	92.3 (88.6)	85.2	64.10	69.54	74.61	77.72	79.60	78.87	76.41	70.23	59.91	43.41	18.08
552.9	91.7 (88.4)	84.7	63.93	68.47	73.73	77.49	79.42	79.32	76.27	69.52	59.00	42.29	16.53
596.3	91.0 (87.8)	84.0	63.20	68.33	72.92	75.98	77.87	78.95	75.61	68.95	58.29	41.14	14.74
655.1	90.4 (87.2)	83.4	62.36	67.39	71.99	75.40	76.88	78.49	75.10	68.10	57.15	39.69	12.21

RUN NUMBER	=	194.00 (741.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (IN.)	=	0.000
PRIMARY TEMPERATURE (°F)	=	1236.000
SECONDARY TEMPERATURE (°F)	=	540.000
PRIMARY PRESSURE RATIO	=	2.500
AREA RATIO	=	4.856
VELOCITY RATIO	=	1.562
PRIMARY VELOCITY (FT/SEC)	=	1851.944
MASS FLOW RATIO	=	5.975
PRIMARY MASS FLOW (LB/SEC)	=	222
THRUST (LBS)	=	55.572
ENVIRONMENTAL TEMPERATURE (°F)	=	548.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	=	32.000
CALIBRATION FACTOR (IN. TO 0.750 CM)	=	1.12
INSTRUMENTATION NOISE FLOOR (DB)	=	70.579

DUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.73741E+01	142.4	THRUST	POWER LEVEL (DB)
500	2.92174E-01	124.7	10000	145.4
1000	1.54876E+00	132.0	20000	148.0
2000	6.11055E+00	136.1	40000	171.0
4000	4.10971E+00	136.1	80000	174.0
8000	4.10500E+00	136.1		
16000	2.36174E+00	133.7		
31500	7.96124E-01	129.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	104.4	109.8	111.1	108.3	105.3	98.3	90.1	115.6
20.0	104.2	111.2	112.9	110.5	107.5	100.9	92.2	117.3
25.0	103.7	110.7	113.6	111.0	108.4	103.3	94.0	117.7
30.0	102.3	110.3	114.3	111.7	109.5	106.3	97.9	118.3
35.0	99.6	108.6	113.5	112.5	111.1	108.7	101.2	118.4
40.0	97.7	106.6	112.2	112.4	111.5	108.9	102.2	118.0
45.0	95.9	103.7	109.9	111.8	112.3	109.7	103.3	117.5
50.0	93.1	101.1	107.1	110.2	111.5	108.7	102.0	116.1
55.0	90.8	98.7	104.7	108.4	110.4	107.9	102.4	114.7
60.0	89.3	96.2	102.3	105.8	107.9	106.0	102.0	112.5
65.0	88.4	95.0	100.5	103.4	105.4	104.3	101.6	110.5
70.0	88.4	94.4	99.4	102.0	103.8	102.1	99.4	108.9
75.0	87.9	93.6	98.2	100.7	102.1	101.0	99.1	107.7
80.0	87.5	92.9	97.4	99.4	100.8	99.4	98.1	106.4
85.0	87.0	92.2	97.2	98.0	100.0	98.6	97.9	105.9
90.0	86.6	91.2	95.2	97.8	99.2	98.2	97.5	105.0
95.0	85.9	90.5	95.3	97.7	99.1	98.4	97.2	104.9
100.0	85.9	90.6	94.7	96.9	97.9	97.6	96.3	104.1
105.0	84.2	89.7	93.9	95.8	97.1	97.4	95.3	103.3
110.0	84.2	89.3	93.6	95.5	96.9	97.4	95.2	103.1
115.0	83.9	88.8	92.9	95.2	96.7	97.6	94.8	102.9

MODEL THRUST = 55.572 FULL SCALE THRUST = 20000.000

L.	PN08.	OASPL	26.4	OCTAVE 52.7	BAND 105.4	SOUND 210.8	PRESSURE 421.7	LEVELS 843.4	1600.4	3120.9	6589.1	13178.1	26356.2
795.6	85.61 (85.4)	85.9	75.21	80.59	81.77	78.38	73.87	62.95	46.03	23.99	-15.33	-82.61	-187.32
585.7	90.71 (90.4)	90.1	77.49	84.41	85.02	83.16	79.68	69.54	54.13	36.72	6.24	-45.41	-125.37
549.3	93.71 (93.3)	92.5	78.80	85.77	86.41	85.68	82.11	74.64	59.95	45.29	20.04	-22.33	-87.61
888.0	96.61 (96.0)	94.4	78.88	86.88	87.74	87.93	84.90	79.72	66.72	53.86	32.06	-6.21	-59.86
815.7	99.21 (98.4)	95.6	77.32	86.38	87.14	84.94	87.87	83.72	72.18	60.59	41.20	9.19	-30.76
333.6	100.51 (99.5)	96.1	76.44	85.16	86.67	80.88	84.38	85.16	74.97	64.31	46.68	17.40	-26.15
121.3	101.71 (100.6)	96.3	75.49	83.23	84.81	81.15	81.04	87.07	77.42	67.45	51.16	24.63	-15.00
958.1	101.51 (100.2)	95.5	73.34	81.34	87.33	80.21	81.00	86.91	78.25	68.82	53.55	28.83	-8.53
831.2	101.01 (99.6)	94.7	71.71	79.57	85.49	89.00	80.51	86.77	78.57	69.55	55.07	31.76	-3.37
732.1	99.61 (97.9)	92.9	70.67	77.58	83.58	86.42	84.55	85.54	78.86	70.17	56.31	34.10	.71
655.1	98.31 (96.4)	91.3	70.18	76.49	82.20	84.91	84.49	84.26	79.12	70.68	57.31	35.95	3.91
598.3	97.11 (95.1)	90.1	70.50	76.43	81.42	83.47	85.20	82.66	77.70	69.45	56.45	35.74	4.73
552.9	96.11 (94.0)	89.0	70.16	75.64	80.39	82.74	83.79	81.49	77.44	69.34	56.68	36.39	6.13
523.1	95.11 (93.0)	88.0	69.43	75.33	79.81	81.67	82.62	80.21	76.63	68.62	56.08	36.18	6.45
505.7	94.91 (92.7)	87.6	69.60	74.70	74.67	81.41	82.92	79.55	76.56	68.62	56.18	36.48	7.05
500.0	94.21 (92.0)	86.6	69.19	73.79	77.73	80.20	81.22	79.18	74.14	68.25	55.85	36.22	6.89
505.7	94.01 (91.8)	86.5	68.44	73.01	77.79	80.02	81.95	79.39	75.91	67.46	55.53	35.83	6.40
523.1	93.61 (90.8)	85.6	68.34	73.07	77.67	77.17	74.77	76.44	74.81	66.81	54.26	34.37	4.64
552.9	91.91 (89.7)	84.6	64.54	71.93	75.12	77.97	74.77	78.32	73.64	65.51	52.41	32.58	2.73
506.3	91.41 (89.2)	84.1	66.30	71.14	75.64	77.31	78.34	77.73	73.15	64.90	51.90	31.19	2.18
655.1	90.41 (88.5)	83.6	65.48	70.48	74.57	74.70	77.83	77.54	72.24	63.81	50.43	29.08	-2.97

WIND NUMBER	106.000
AIRIAL POSITION OF PRIMARY WPT. SECONDARY (IMS.)	0.000
PRIMARY TEMPERATURE (K)	1244.000
SECONDARY TEMPERATURE (K)	942.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	9.700
VELOCITY RATIO	0.500
PRIMARY VELOCITY (FT/SEC)	1842.014
MASS FLOW RATIO	12.000
PRIMARY MASS FLOW (LB/SEC)	0.223
THRUST (LBS)	99.708
ENVIRONMENTAL TEMPERATURE (K)	542.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	30.000
CALIBRATION FACTOR (4V TO DV/50 CM)	0.112
INSTRUMENTATION NOISE FLOOR (DB)	70.570

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.33242E+01	143.7	THRUST	POWER LEVEL (DB)
500	0.63076E-01	129.4	10000	163.7
1000	2.24170E+00	133.5	20000	166.7
2000	4.64165E+00	136.7	40000	169.7
4000	4.61335E+00	136.6	80000	172.7
8000	5.39502E+00	137.3		
16000	3.82247E+00	135.8		
31500	1.74572E+00	132.4		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	107.6	111.6	109.8	106.0	105.5	105.9	100.9	116.3
20.0	113.5	112.6	111.0	107.5	106.5	107.0	102.8	118.4
25.0	108.0	112.2	112.7	109.0	107.8	108.1	104.4	117.9
30.0	106.0	111.3	112.7	110.0	109.4	108.9	105.0	118.1
35.0	101.7	109.4	112.2	111.1	110.4	109.1	105.6	118.0
40.0	99.5	107.0	111.6	112.3	111.5	108.9	105.2	118.0
45.0	98.4	105.0	114.9	113.0	112.5	110.1	106.3	119.5
50.0	98.0	102.7	107.6	110.8	112.7	110.3	106.1	117.3
55.0	93.3	100.9	106.3	109.4	111.6	109.6	105.5	116.2
60.0	93.4	99.8	104.4	107.6	109.9	108.8	105.4	114.8
65.0	92.8	98.8	103.5	106.1	108.5	107.5	104.1	113.5
70.0	92.3	97.8	102.5	105.1	107.2	106.1	103.0	112.3
75.0	91.4	97.4	101.5	103.8	105.5	104.4	102.0	110.9
80.0	91.9	96.4	100.9	103.3	104.6	103.3	101.1	110.1
85.0	90.7	95.2	99.8	101.8	103.3	102.0	100.1	108.9
90.0	90.3	95.1	99.4	101.4	103.0	101.9	99.8	108.6
95.0	90.1	94.7	98.3	100.6	102.1	101.3	99.5	107.4
100.0	89.5	93.9	98.2	100.0	101.5	100.7	98.7	107.3
105.0	88.6	93.5	97.5	99.4	100.9	100.4	98.2	106.8
110.0	87.9	93.0	97.0	99.0	100.7	100.3	97.8	106.4
115.0	87.7	92.5	96.7	98.6	100.6	99.9	97.3	106.1

MODEL THRUST = 99.708 FULL SCALE THRUST = 20000.000

L.	PROB.	OASPL	35.3	OCTAVE 70.6	BAND 141.2	SOUND 282.4	PRESSURE 564.9	LEVELS 1129.7	2224.1	4448.3	8895.9	17651.9	35303.7
5795.4	83.61 83.51	83.6	75.94	79.79	77.73	73.08	70.28	65.12	47.82	19.35	-30.26	-112.28	-234.76
4345.7	88.61 88.51	88.5	84.18	83.24	81.44	77.29	74.54	70.87	57.42	35.15	-3.12	-65.92	-159.33
3549.3	91.91 91.61	89.6	78.54	84.71	84.99	80.91	78.26	75.07	63.90	45.31	13.76	-37.63	-113.80
3088.6	94.61 94.11	91.1	76.03	85.31	86.58	83.36	81.58	78.20	67.96	51.78	24.65	-19.25	-84.10
2615.2	96.51 95.91	92.1	76.91	84.61	87.27	85.73	84.07	80.17	71.24	56.75	32.72	-5.94	-62.45
2333.6	98.11 97.41	93.1	75.72	83.18	87.62	88.02	86.33	81.48	72.79	59.53	37.96	2.95	-44.16
2121.3	100.41 99.61	95.7	73.91	81.99	91.83	90.18	88.23	83.82	75.50	63.18	43.12	11.20	-35.54
1950.1	100.21 99.31	93.7	76.44	80.47	85.24	88.10	89.31	84.96	76.64	65.03	46.24	16.59	-24.76
1831.2	99.91 98.81	93.1	71.60	79.23	84.67	87.36	88.79	85.02	77.18	64.05	48.33	20.36	-24.39
1732.1	99.21 98.01	92.2	72.18	78.63	83.05	86.04	87.63	84.84	77.05	67.25	50.32	23.70	-15.00
1655.1	98.41 97.11	91.3	72.04	77.96	82.45	84.96	86.69	84.08	77.16	64.89	50.58	25.81	-12.11
1596.3	97.71 96.41	90.5	71.76	77.33	81.43	84.28	85.77	83.14	76.66	66.64	50.41	26.04	-9.87
1552.9	96.71 95.31	89.4	71.45	77.10	81.16	83.21	84.35	81.72	76.08	66.25	50.76	26.59	-8.42
1523.1	96.11 94.71	88.8	71.82	76.30	80.73	82.94	83.57	80.87	75.40	65.70	50.45	26.60	-7.71
1505.7	95.11 93.71	87.6	70.73	75.23	79.77	81.55	82.39	79.48	74.56	64.95	49.44	24.31	-7.73
1500.6	94.91 93.41	87.4	70.32	75.09	79.32	81.18	82.13	79.56	74.37	64.78	49.72	24.27	-7.66
1505.7	94.31 92.81	86.5	70.14	74.64	78.22	80.75	81.17	78.60	73.94	64.36	49.25	24.72	-7.32
1523.1	93.41 92.01	85.9	69.41	73.74	77.34	79.43	80.66	78.76	72.49	63.30	48.65	24.28	-10.12
1552.9	92.71 91.21	85.2	69.34	73.14	77.14	78.43	79.74	77.92	72.23	62.40	48.91	22.74	-12.78
1596.3	91.91 90.51	84.6	67.38	72.49	76.42	78.16	79.25	77.29	71.41	61.40	45.56	20.80	-15.11
1655.1	91.01 89.71	83.9	66.47	71.70	75.76	77.46	78.78	76.54	70.45	60.17	43.46	19.30	-14.42

WIND NUMBER	197.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	NONE
PRIMARY TEMPERATURE (H)	1294.000
SECONDARY TEMPERATURE (H)	NONE
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	NONE
VELOCITY RATIO	NONE
PRIMARY VELOCITY (FT/SEC)	2160.210
MASS FLOW RATIO	NONE
PRIMARY MASS FLOW (LR/SEC)	.272
THRUST (LBS)	18.297
ENVIRONMENTAL TEMPERATURE (H)	565.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PPH CENT)	17.700
CALIBRATION FACTOR (INV TO 10750 CM)	.252
INSTRUMENTATION NOISE FLOOR (DB)	77.607

JUSTICE POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	7.55191E+01	148.8	THRUST	POWER LEVEL (DB)
500	4.60790E-02	116.6	10000	176.2
1000	5.00139E-01	127.0	20000	179.2
2000	3.59415E+00	135.6	40000	182.2
4000	1.39425E+01	141.4	80000	185.2
8000	3.01662E+01	146.8		
16000	1.84004E+01	142.0		
31500	8.28172E+00	139.2		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.9	102.5	107.0	109.5	111.4	108.7	105.7	116.1
20.0	95.5	104.5	110.3	113.6	115.1	113.6	109.4	120.1
25.0	94.5	104.4	111.7	116.1	118.9	116.3	111.2	122.9
30.0	93.6	104.3	112.8	117.4	120.5	118.4	113.6	124.5
35.0	92.4	103.7	113.5	118.0	120.7	117.7	113.9	124.6
40.0	91.0	102.0	112.1	117.4	121.0	119.7	115.7	125.2
45.0	89.6	100.0	111.3	116.2	121.0	119.1	115.2	125.1
50.0	87.1	95.6	109.1	117.3	121.0	118.1	114.3	124.5
55.0	84.3	95.2	105.8	115.7	119.1	116.2	112.1	122.4
60.0	82.9	92.9	102.9	111.0	115.6	113.9	110.2	119.4
65.0	81.1	90.5	98.9	108.2	111.1	110.9	109.0	115.8
70.0	81.1	89.4	97.0	103.4	108.2	108.8	107.7	113.4
75.0	81.1	89.0	96.4	101.6	106.3	107.6	106.5	112.2
80.0	81.1	88.5	95.6	100.8	104.9	106.0	105.4	110.9
85.0	81.1	88.5	94.9	99.9	103.9	104.6	104.3	109.7
90.0	80.1	100.4	94.9	98.9	102.6	103.7	103.2	109.3
95.0	80.1	86.6	93.4	97.8	101.1	102.1	101.2	107.0
100.0	80.1	86.0	92.8	97.0	100.5	101.2	101.0	106.5
105.0	78.9	86.0	92.2	96.8	100.3	101.0	100.5	106.2
110.0	77.6	85.5	91.8	96.3	99.9	100.4	102.0	105.7
115.0	77.6	84.1	90.8	95.3	99.1	99.5	99.6	104.9

MODEL THRUST = 18.297 FULL SCALE THRUST = 20000.000

L.	PND8.	OASPL	OCTAVE 15.1	BAND 30.2	SOUND 60.5	PRESSURE 121.0	LEVELS 242.0	483.9	952.8	1905.5	3790.8	7561.6	15123.2
1795.6	93.71 (92.7)	90.6	70.58	78.19	82.59	84.89	86.09	81.55	74.12	68.67	36.13	-8.15	-82.16
1385.7	106.91 (99.6)	97.2	73.57	82.62	88.34	91.51	92.48	89.80	81.99	71.68	51.74	17.54	-39.19
949.3	106.21 (104.7)	102.0	74.43	84.33	91.58	95.91	98.30	94.48	86.73	77.33	61.14	32.85	-13.63
1000.0	109.71 (107.9)	105.1	75.03	85.72	94.13	98.69	101.39	98.39	91.21	82.80	68.65	44.28	4.52
615.7	111.41 (109.3)	106.5	74.99	86.33	96.02	100.45	102.81	99.03	93.23	85.51	72.79	51.16	16.12
535.6	113.41 (110.9)	108.1	74.56	85.57	95.61	100.49	104.18	102.20	94.37	83.17	71.49	57.87	26.28
121.3	114.21 (111.6)	108.9	74.05	84.44	95.73	102.51	105.08	102.47	94.47	80.15	70.26	61.15	37.16
1958.1	114.51 (111.8)	104.1	72.24	80.69	94.14	102.34	105.75	102.28	94.46	80.43	68.16	63.21	34.22
1831.2	113.11 (110.4)	107.6	70.00	80.88	91.47	100.26	104.50	100.96	95.45	84.15	74.34	63.30	37.46
1732.1	116.81 (107.8)	105.0	69.03	74.07	84.05	97.11	101.46	99.28	94.22	88.10	74.66	63.33	39.10
1655.1	108.51 (104.9)	101.5	67.68	77.05	85.49	97.68	97.44	94.44	91.50	87.51	78.36	63.57	40.29
1596.3	106.91 (103.1)	99.9	68.00	76.26	83.43	90.17	94.78	94.45	92.55	88.67	77.74	63.37	40.81
1552.9	106.01 (102.1)	98.6	69.24	76.69	83.50	88.46	93.17	94.01	91.70	85.90	77.13	63.07	41.04
1523.1	104.91 (100.9)	97.6	68.40	75.83	82.44	87.47	91.47	92.57	90.80	85.35	76.39	62.54	40.44
1505.7	103.41 (99.8)	96.6	68.50	75.93	82.24	87.24	90.49	91.75	89.76	84.04	75.45	61.72	40.27
1508.6	103.31 (99.4)	96.3	67.51	77.79	82.29	86.22	89.79	90.42	88.72	83.02	74.44	60.76	39.34
1505.7	101.11 (97.7)	94.0	67.44	74.03	80.72	85.15	88.19	88.72	86.44	80.94	72.17	59.64	37.19
1523.1	102.41 (98.3)	93.3	67.38	71.34	77.34	83.22	87.49	87.71	84.39	80.65	71.99	59.14	36.47
1552.9	99.41 (95.9)	92.4	66.65	73.17	74.24	83.47	87.15	87.19	84.44	74.44	71.11	57.05	34.02
1506.1	99.41 (95.1)	92.4	66.47	72.33	74.44	83.44	84.44	84.44	84.44	74.47	70.64	55.67	33.11
1655.1	97.41 (93.9)	90.4	66.16	73.44	77.31	81.77	84.44	84.44	84.44	74.10	68.95	54.16	32.44

RUN NUMBER	144.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (°F)	1317.000
SECONDARY TEMPERATURE (°F)	564.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	1.000
VELOCITY RATIO	0.345
PRIMARY VELOCITY (FT/SEC)	2182.467
MASS FLOW RATIO	0.847
PRIMARY MASS FLOW (LB/SEC)	0.272
THRUST (LBS)	74.380
ENVIRONMENTAL TEMPERATURE (°F)	563.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	17.000
CALIBRATION FACTOR (INV TO DY/50 CM)	0.224
INSTRUMENTATION NOISE FLOOR (DB)	76.500

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.49162E+01	148.1	THRUST	POWER LEVEL (DB)
500	8.50250E-02	119.3	10000	174.3
1000	7.63728E-01	128.8	20000	177.3
2000	4.52853E+00	136.6	40000	180.3
4000	1.40007E+01	141.5	80000	183.3
8000	2.40148E+01	143.9		
16000	1.47522E+01	141.7		
31500	6.29127E+00	139.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	8000	16000	31500	ALL
15.0	97.7	104.9	108.9	113.7	110.8	106.6	101.4	117.2
20.0	98.2	106.9	111.1	114.8	110.5	112.0	105.5	120.5
25.0	98.9	107.3	113.2	115.6	117.0	113.1	107.9	121.5
30.0	98.6	107.0	114.1	117.4	119.3	116.1	110.5	123.5
35.0	98.6	105.3	113.9	118.0	119.9	117.0	111.8	124.0
40.0	93.3	104.3	113.5	118.1	119.9	118.0	113.6	124.4
45.0	94.4	102.2	112.2	118.2	120.4	118.5	114.8	124.7
50.0	99.6	99.8	109.5	117.0	119.8	117.4	113.6	123.7
55.0	97.0	97.1	106.9	114.2	117.9	115.2	111.4	121.5
60.0	95.1	94.4	104.1	110.7	114.5	113.1	110.2	116.7
65.0	93.9	92.6	100.3	106.5	111.0	110.9	108.7	115.8
70.0	92.6	90.8	97.9	103.4	104.0	108.4	107.2	113.3
75.0	93.3	89.5	97.0	102.0	106.0	106.6	105.8	111.6
80.0	91.8	92.9	95.9	100.6	104.6	105.2	104.2	110.2
85.0	91.8	88.7	95.4	100.2	103.3	104.3	103.1	109.2
90.0	91.8	88.4	94.8	99.2	102.7	103.5	102.0	108.4
95.0	91.8	87.9	93.6	97.4	102.0	102.5	101.1	107.4
100.0	91.8	87.1	92.9	97.3	101.6	102.0	100.0	106.8
105.0	90.1	86.6	92.3	96.7	101.4	101.5	99.7	106.4
110.0	79.1	86.1	91.4	95.6	100.8	101.0	98.9	105.8
115.0	77.9	85.0	90.8	95.3	99.9	100.5	98.6	105.2

MODEL THRUST = 24.380 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS							
			17.5	34.9	69.8	139.7	279.3	558.6	1099.8	2199.6	4399.3	8798.6	17457.2	
8795.6	92.3 (91.7)	90.9	72.09	79.26	83.19	87.74	84.05	77.60	66.94	51.71	23.90	-25.67	-107.10	
4395.7	95.91 (95.1)	96.5	75.01	83.78	87.87	91.32	92.40	88.24	75.70	63.41	41.64	3.39	-58.96	
3549.3	103.31 (102.1)	99.4	75.55	85.94	91.86	94.03	94.99	89.71	81.15	70.63	52.45	20.92	-30.11	
3000.0	107.31 (105.9)	102.9	76.72	87.18	94.22	97.39	98.79	94.46	86.11	76.76	60.92	33.81	-9.79	
2615.2	109.51 (107.8)	104.7	75.98	86.45	95.21	99.17	100.70	94.78	89.16	80.62	66.63	42.41	4.02	
2333.6	111.21 (109.1)	106.0	75.60	86.63	95.46	100.24	101.74	98.63	92.36	84.42	71.43	49.68	15.10	
2121.3	112.71 (110.4)	107.2	77.61	88.33	95.32	101.23	103.12	100.39	94.79	87.29	75.21	55.17	23.46	
1950.1	112.61 (110.2)	106.9	73.49	83.63	93.33	100.68	103.26	100.65	94.49	87.34	75.96	57.22	27.73	
1831.2	111.71 (108.6)	105.3	71.47	81.58	91.26	98.48	101.95	98.53	93.06	86.18	75.36	57.82	29.84	
1732.1	109.17 (106.2)	102.4	70.01	79.29	88.48	95.48	99.05	97.00	92.51	85.84	75.43	58.51	32.07	
1655.1	107.21 (103.9)	100.4	69.75	77.95	85.64	91.67	96.01	95.27	91.54	85.03	74.95	58.65	31.25	
1596.3	105.21 (101.7)	98.2	68.23	76.38	83.53	89.97	93.27	93.04	90.37	83.99	74.16	58.33	33.73	
1552.9	104.01 (100.3)	96.6	69.16	75.33	82.84	87.74	91.54	91.56	89.36	83.07	73.43	57.95	33.43	
1523.1	102.81 (99.2)	95.6	67.88	78.91	81.96	86.54	90.31	90.36	87.93	81.70	72.18	56.94	33.33	
1505.7	101.91 (98.3)	94.7	67.98	74.98	81.49	86.22	89.18	89.59	84.98	80.79	71.35	56.24	32.87	
1500.0	101.01 (97.5)	93.9	68.01	74.52	80.91	85.23	88.60	88.75	85.92	79.75	70.33	55.27	31.97	
1505.7	100.01 (96.5)	92.9	67.98	74.09	79.75	83.47	87.82	87.74	84.82	78.74	69.99	54.19	31.81	
1523.1	99.21 (95.7)	92.2	67.88	73.72	78.89	83.22	87.82	87.10	83.72	77.49	67.98	52.74	29.12	
1552.9	98.41 (95.1)	91.8	65.97	72.64	77.18	82.43	86.94	86.44	81.17	76.88	67.24	51.76	27.74	
1596.3	97.41 (94.2)	90.4	64.70	71.74	77.05	81.14	86.15	85.72	82.16	75.78	65.45	50.12	25.52	
1655.1	96.61 (93.3)	89.8	63.23	70.36	76.14	80.47	84.48	84.46	81.38	76.67	64.79	48.49	23.69	

MINIMUM	200.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	0.000
PRIMARY TEMPERATURE (°F)	1304.000
SECONDARY TEMPERATURE (°F)	552.000
PRIMARY MASS FLOW (LBS/SEC)	3.500
AREA RATIO	2.007
VELOCITY RATIO	0.341
PRIMARY VELOCITY (FT/SEC)	2174.707
MASS FLOW RATIO	1.741
PRIMARY MASS FLOW (LBS/SEC)	0.270
THROUST (LBS)	30.349
ENVIRONMENTAL TEMPERATURE (°F)	599.500
ENVIRONMENTAL PRESSURE (IN.HG)	24.610
ENVIRONMENTAL HUMIDITY (PER CENT)	30.000
CALIBRATION FACTOR (W TO JY/SO CH)	0.252
INSTRUMENTATION NOISE FLOOR (DB)	77.667

Reproduced from
best available copy.

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	9.22596E+01	149.7	THRUST	POWER LEVEL (DB)
500	8.51087E-02	119.3	10000	174.4
1000	7.66356E-01	128.8	20000	177.4
2000	4.75217E+00	136.4	40000	180.4
4000	1.43811E+01	141.6	80000	183.9
8000	3.34277E+01	145.2		
16000	2.71600E+01	144.3		
31500	1.16672E+01	140.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.5	105.6	110.5	112.8	116.7	112.8	107.0	120.2
20.0	98.0	106.9	112.2	115.0	119.2	116.2	110.7	122.8
25.0	97.4	107.1	113.3	116.0	120.2	116.4	113.5	124.2
30.0	96.7	106.9	114.2	117.4	121.6	120.2	115.0	125.7
35.0	95.3	105.7	114.1	117.9	121.5	121.2	116.4	126.1
40.0	93.6	104.3	113.6	116.4	121.3	121.4	117.0	126.2
45.0	91.3	102.0	112.1	117.9	120.7	120.1	115.4	125.3
50.0	89.3	99.8	109.7	116.8	119.4	118.1	114.2	123.9
55.0	87.1	97.5	107.2	114.4	117.7	116.5	112.5	122.3
60.0	85.5	96.6	104.9	111.3	116.2	115.0	111.7	120.2
65.0	84.3	92.6	100.3	107.9	112.7	112.7	110.2	117.5
70.0	83.4	91.2	98.4	104.4	109.4	110.9	109.2	115.3
75.0	82.9	90.1	97.3	103.3	108.1	109.6	104.0	114.1
80.0	82.4	89.8	96.6	102.0	106.9	107.3	107.4	112.4
85.0	82.0	89.0	96.2	100.4	105.2	106.7	107.5	111.7
90.0	82.0	88.1	95.3	99.8	103.9	105.5	106.4	110.6
95.0	81.1	88.1	94.2	98.4	101.0	104.5	104.4	110.1
100.0	80.1	87.1	93.6	98.3	102.4	104.0	104.0	109.7
105.0	80.1	86.6	92.4	97.2	102.2	103.2	104.2	109.4
110.0	79.9	86.0	92.2	96.5	101.4	102.8	103.9	109.0
115.0	79.0	84.0	91.1	96.1	100.4	102.1	105.5	108.4

MODEL THRUST = 30.389 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE		BAND	SOUND	PRESSURE	LEVELS						
			10.5	39.0	74.0	155.9	311.8	623.7	1227.9	2455.8	4872.5	9745.0	19490.1	
8794.4	95.41	95.31	92.2	72.02	79.02	83.79	85.78	88.77	82.25	70.34	53.49	22.93	-31.02	-11.41
4584.7	101.41	101.01	97.3	73.91	82.40	87.98	90.53	94.63	89.07	78.92	65.44	41.58	0.03	-44.43
3549.3	105.71	104.91	100.6	75.18	84.80	90.65	93.49	97.69	93.62	85.04	73.56	53.68	19.48	-35.20
3080.0	109.01	107.31	103.7	76.87	86.06	93.29	96.34	100.06	97.30	84.96	74.79	61.52	32.15	-14.53
2615.2	110.41	109.11	104.4	78.47	88.07	94.66	96.63	101.27	99.76	82.16	72.16	62.91	67.67	41.49
2333.7	112.31	110.31	106.4	79.00	85.62	94.03	94.59	102.14	101.20	84.26	75.68	71.59	48.07	11.10
2121.3	112.41	110.21	106.6	73.48	84.19	94.22	94.95	102.39	100.40	84.32	76.25	73.16	51.52	17.43
1958.1	112.41	109.71	105.0	72.17	82.54	92.58	94.56	102.25	99.63	81.64	73.65	73.65	53.43	21.92
1831.2	111.31	108.91	103.0	70.62	80.47	90.47	97.76	101.76	98.72	82.74	75.40	73.49	54.60	24.93
1732.1	109.41	107.11	103.3	69.42	78.53	87.48	95.13	99.72	97.81	82.61	75.47	74.24	56.01	27.79
1644.1	107.71	106.71	101.0	68.67	76.94	85.24	92.12	96.77	95.92	81.68	74.73	73.86	54.31	29.21
1586.3	106.31	105.01	99.0	68.29	75.03	83.66	90.11	93.93	94.44	81.08	74.26	73.67	56.44	30.40
1552.4	105.61	104.01	98.0	67.77	74.04	82.21	88.08	92.59	93.42	80.80	73.09	73.70	57.05	31.44
1523.1	104.81	103.71	97.7	67.94	74.04	81.64	86.48	91.21	91.45	84.85	73.21	72.97	56.58	31.40
1508.7	104.01	103.01	95.9	67.21	74.15	81.35	85.44	89.94	90.82	84.50	72.74	72.74	56.50	31.54
1500.0	103.21	102.11	94.9	67.25	73.12	80.53	84.40	88.41	89.63	88.46	82.30	72.22	54.04	31.20
1505.7	102.41	101.71	94.2	66.30	73.24	79.11	83.44	87.43	88.63	84.80	82.30	72.14	55.00	30.94
1573.1	102.31	101.11	93.7	65.14	72.22	77.48	82.44	87.33	88.04	86.40	81.76	71.52	54.13	29.45
1552.4	102.01	101.71	93.1	65.01	71.42	77.46	81.47	86.73	87.03	81.66	71.27	71.27	54.02	29.01
1546.7	101.21	101.01	92.4	63.61	70.72	76.40	81.32	86.64	86.33	87.74	80.46	70.31	53.30	27.13
1545.1	100.21	100.11	91.5	63.29	69.10	75.46	80.32	85.49	85.27	84.94	80.02	69.15	51.00	24.53

RUN NUMBER	100.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	0.000
PRIMARY TEMPERATURE (IN)	1307.000
SECONDARY TEMPERATURE (IN)	500.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	2177.874
MASS FLOW RATIO	1.000
PRIMARY MASS FLOW (LB/SEC)	1.760
THRUST (LBS)	27.701
ENVIRONMENTAL TEMPERATURE (IN)	901.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	19.000
CALIBRATION FACTOR (MW TO DY/SH CM)	1.252
INSTRUMENTATION NOISE FLOOR (DB)	77.607

SYNCHRONIZED AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	8.13744E+01	149.1	THRUST	POWER LEVEL (DB)
500	1.02225E-01	120.1	10000	174.7
1000	9.66018E-01	129.9	20000	177.7
2000	6.12726E+00	137.9	40000	180.7
4000	1.68954E+01	142.3	80000	183.7
8000	2.76071E+01	144.4		
16000	2.00695E+01	143.0		
31500	9.60582E+00	139.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	99.1	108.3	109.5	110.5	110.5	107.1	101.6	116.3
20.0	98.7	107.8	113.2	113.2	116.0	112.2	106.4	120.8
25.0	98.4	107.6	113.8	116.5	117.2	113.7	108.3	122.0
30.0	97.4	108.1	115.3	118.1	114.0	116.0	111.3	123.8
35.0	96.2	106.9	115.3	118.1	119.6	117.8	112.8	124.4
40.0	94.9	105.5	115.1	119.3	120.6	119.6	115.1	125.4
45.0	92.4	103.5	113.4	118.8	120.8	119.7	116.1	125.5
50.0	89.6	100.9	111.3	118.1	120.7	119.0	115.5	125.9
55.0	87.1	98.1	108.3	115.7	119.1	118.5	112.1	122.7
60.0	85.5	94.6	103.9	110.7	115.6	114.6	111.6	119.7
65.0	84.3	92.6	101.0	107.4	112.1	112.4	110.5	117.1
70.0	83.6	91.5	98.6	104.5	109.3	110.1	109.3	116.9
75.0	83.6	90.1	97.3	102.5	107.0	108.1	104.0	113.1
80.0	83.6	90.5	97.0	101.7	105.4	107.1	107.7	112.3
85.0	82.4	90.1	96.4	100.6	104.4	106.5	107.0	111.5
90.0	82.9	89.4	95.3	99.7	103.7	106.0	106.5	110.9
95.0	82.0	89.0	94.2	98.7	103.4	105.5	106.0	110.3
100.0	82.0	88.1	93.9	98.3	102.5	105.0	105.5	109.4
105.0	81.1	87.6	93.1	97.5	102.0	104.5	105.4	109.4
110.0	80.1	86.6	92.5	96.8	101.5	104.0	105.0	108.9
115.0	78.9	86.0	91.5	96.3	101.1	103.5	104.9	108.6

MODEL THRUST = 27.701 FULL SCALE THRUST = 20000.000

L.	PMDB.	OASPL	10.6	OCTAVE 37.2	BAND 74.4	SOUND 148.9	PRESSURE 297.7	LEVELS 595.5	1172.3	2344.6	4652.0	9304.1	18608.1
195.6	91.41 (90.9)	89.3	72.93	80.13	83.30	83.93	83.05	77.20	65.95	49.78	20.41	-31.67	-116.53
185.7	89.61 (88.8)	86.2	74.96	84.06	87.36	91.15	91.27	85.63	75.84	62.87	39.92	-22.22	-65.17
149.1	103.21 (102.1)	99.3	76.56	85.71	91.91	94.35	94.53	89.51	80.53	69.46	50.31	17.26	-34.47
100.0	107.91 (105.6)	102.6	77.04	87.73	94.86	97.51	97.79	93.66	85.99	76.17	59.51	31.11	-14.76
115.2	104.31 (107.6)	104.4	76.97	87.66	96.05	98.67	99.75	94.91	89.23	80.29	65.39	48.25	1.71
133.4	111.61 (109.8)	106.6	76.60	87.20	96.86	100.44	101.85	99.84	93.02	84.72	71.10	48.34	12.38
121.3	113.01 (110.7)	107.3	75.01	86.11	95.58	101.39	102.93	100.89	95.18	87.36	74.70	53.74	20.78
158.1	113.41 (111.0)	107.5	72.94	84.21	94.61	101.31	103.53	101.64	95.54	88.09	76.18	56.60	25.95
131.2	111.41 (109.5)	106.0	71.02	81.97	92.14	99.49	102.58	99.23	92.92	85.76	74.63	55.92	27.06
132.1	109.81 (106.9)	103.3	69.92	78.93	88.20	94.94	99.55	97.84	93.14	86.21	75.33	57.66	30.20
155.1	109.01 (104.8)	101.1	69.67	77.39	85.76	92.94	94.44	96.10	92.53	85.77	75.24	58.23	31.25
154.3	106.41 (102.9)	97.1	68.64	76.55	83.64	94.50	93.49	94.17	91.77	85.14	74.88	58.36	32.42
156.7	105.21 (101.3)	97.5	68.93	75.45	82.62	87.70	91.91	92.44	90.79	84.27	74.20	58.05	33.12
123.1	104.41 (100.8)	96.9	69.10	75.97	82.43	87.09	90.96	91.80	90.04	84.18	74.25	58.35	33.44
100.7	104.31 (100.1)	96.1	68.44	75.71	81.95	86.12	89.61	91.15	90.14	83.71	73.86	58.11	33.44
100.0	103.41 (99.6)	95.6	68.40	74.94	80.94	85.19	88.45	90.66	89.67	83.26	73.44	57.74	33.45
105.7	102.21 (98.9)	95.0	67.62	74.45	79.71	84.21	88.44	90.16	89.49	82.87	72.92	57.07	32.40
123.1	102.01 (98.3)	94.3	67.42	73.44	74.36	83.67	87.65	84.52	84.49	82.03	72.10	56.20	31.69
152.9	102.01 (97.7)	93.7	66.43	72.95	74.36	82.72	86.44	88.80	88.17	81.64	71.58	55.43	30.49
154.3	101.21 (97.0)	93.0	65.17	71.66	77.52	81.40	84.24	86.66	87.46	80.83	70.57	54.05	29.40
155.1	100.01 (96.3)	92.2	63.70	70.61	76.72	80.33	83.44	87.70	84.94	80.14	69.05	52.64	28.26

NON NUMBER	
AXIAL POSITION OF PRIMARY WHT, SECONDARY (INS.)	= 201.600
PRIMARY TEMPERATURE (HI)	= 0.000
SECONDARY TEMPERATURE (HI)	= 1313.000
PRIMARY PRESSURE RATIO	= 541.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 2.997
PRIMARY VELOCITY (FT/SEC)	= .477
MASS FLOW RATIO	= 2182.867
PRIMARY MASS FLOW (LB/SEC)	= 2.273
THRUST (LBS)	= .272
ENVIRONMENTAL TEMPERATURE (R)	= 3A.165
ENVIRONMENTAL PRESSURE (IN.MG)	= 550.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.610
CALIBRATION FACTOR (MV TO VV/SU CM)	= 20.000
INSTRUMENTATION NOISE FLOOR (DB)	= .282
	= 78.584

STIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.21670E+02	150.9	THRUST	POWER LEVEL (DB)
500	1.59104E-01	122.0	10000	175.0
1000	1.27118E+00	131.0	20000	179.0
2000	7.63639E+00	138.8	40000	181.1
4000	2.13475E+01	143.3	80000	184.1
8000	4.46155E+01	146.5		
16000	3.23204E+01	145.1		
31500	1.43136E+01	141.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	102.7	107.6	111.2	114.0	116.0	110.7	105.3	120.0
20.0	101.0	109.2	114.2	117.1	119.8	115.1	109.9	123.5
25.0	100.3	109.5	115.2	118.5	121.7	117.5	112.8	125.3
30.0	99.0	109.4	115.3	118.7	122.2	118.7	116.5	125.8
35.0	97.5	108.2	116.5	119.5	123.0	121.3	116.7	127.2
40.0	95.9	106.9	116.2	120.1	123.0	121.9	117.2	127.6
45.0	93.9	104.0	113.6	119.4	122.0	121.3	116.4	126.6
50.0	91.6	102.3	112.1	118.4	121.1	119.4	115.5	125.3
55.0	89.4	99.5	109.9	116.7	120.1	118.0	114.2	124.0
60.0	87.1	96.8	108.2	113.1	117.8	115.4	112.8	121.2
65.0	86.5	94.4	103.0	109.4	118.7	113.7	111.9	118.7
70.0	85.3	92.8	100.4	106.4	111.0	111.8	110.3	116.6
75.0	87.1	92.1	98.8	104.9	109.6	111.8	110.4	115.6
80.0	84.6	91.1	98.1	103.7	107.9	109.9	109.5	114.4
85.0	83.0	90.4	97.6	102.4	107.1	109.1	108.4	113.5
90.0	83.8	90.4	96.5	101.3	105.7	108.4	107.8	112.7
95.0	83.0	89.5	96.1	100.5	106.0	108.9	107.9	112.9
100.0	83.0	88.6	95.1	99.7	105.1	108.5	107.0	112.5
105.0	82.1	88.1	94.3	98.8	105.4	109.3	107.1	112.6
110.0	81.1	87.6	93.4	98.7	105.8	109.4	106.8	112.7
115.0	81.1	87.0	92.8	97.8	105.0	109.1	106.5	112.2

MODEL THRUST = 38.165 FULL SCALE THRUST = 20000.000

L.	PNOR.	OASPL	OCTAVE		HAND	SOUND		PRESSURE		LEVELS			
			21.8	43.7	67.4	174.7	349.5	698.9	1376.0	2752.0	5460.4	10920.8	21841.6
15.4	94.61 (94.2)	91.1	75.13	80.03	83.51	85.92	86.76	78.41	66.05	47.39	13.74	-45.01	-138.77
15.7	101.51 (100.9)	97.2	75.86	84.05	89.11	91.55	93.44	86.42	75.91	61.06	34.86	-10.32	-82.01
16.3	105.91 (104.9)	100.8	77.20	86.25	91.88	94.88	97.40	91.30	82.20	69.70	47.93	18.74	-97.00
16.8	109.41 (107.2)	102.9	77.20	86.55	93.41	96.59	99.48	94.49	86.66	75.55	56.69	24.03	-25.15
17.2	111.21 (109.8)	105.4	76.89	87.40	95.81	98.67	101.61	98.59	90.81	80.74	63.91	35.76	-24.20
17.6	112.71 (111.0)	106.7	76.26	87.23	96.44	100.27	102.66	100.34	92.86	83.56	68.22	42.77	3.23
18.3	112.91 (111.0)	108.7	75.10	85.22	95.00	100.39	102.59	100.76	93.75	85.02	70.80	47.39	11.17
18.1	112.51 (110.6)	106.3	73.55	84.20	93.97	100.08	102.40	99.74	93.47	85.18	71.82	49.49	16.32
18.2	112.01 (109.9)	105.6	71.95	81.94	92.32	99.01	102.03	94.98	93.01	83.06	72.38	51.78	20.09
18.1	109.91 (107.6)	103.2	70.07	79.73	89.16	95.91	99.45	97.17	92.31	84.63	72.47	52.01	22.68
18.1	108.01 (105.3)	101.0	69.90	77.75	86.32	92.44	96.55	95.74	91.92	84.45	72.69	53.77	24.85
18.3	106.61 (103.6)	94.1	68.47	76.43	84.00	90.95	94.20	94.14	91.74	83.93	72.48	54.13	26.13
18.9	106.21 (103.2)	96.4	71.82	78.05	82.71	88.69	93.03	93.02	91.14	83.94	72.73	54.79	27.47
19.1	105.41 (102.3)	97.3	68.69	75.20	82.18	87.64	91.57	92.61	90.51	83.40	72.34	54.69	27.44
19.7	104.51 (101.4)	96.6	67.20	74.54	81.72	86.44	90.82	92.02	89.54	82.48	71.52	54.63	27.45
19.8	103.81 (100.7)	95.7	68.06	74.57	80.73	85.36	89.46	91.42	89.94	81.89	70.96	53.53	27.64
19.7	103.91 (100.7)	95.9	67.20	73.71	80.25	84.54	89.74	91.82	89.06	82.08	71.03	53.55	26.97
19.1	103.01 (99.9)	95.4	67.10	72.70	79.19	83.66	88.79	91.40	87.87	80.85	69.40	52.15	25.29
19.0	102.81 (99.0)	95.2	66.02	71.93	78.22	82.59	86.98	91.92	87.83	80.84	69.42	51.99	25.17
18.3	102.71 (98.8)	95.1	64.76	71.27	77.69	82.19	86.97	91.97	87.22	79.91	68.47	50.12	22.12
19.1	101.01 (98.9)	94.2	64.44	70.39	76.13	81.02	87.89	91.87	88.50	79.83	67.28	48.36	19.44

NO. 400000	
AXIAL POSITION OF PRIMARY WPT. SECONDARY (INS.)	= 202.00 (744.00)
PRIMARY TEMPERATURE (R)	= 9.000
SECONDARY TEMPERATURE (R)	= 1313.000
PRIMARY PRESSURE RATIO	= 241.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 4.856
PRIMARY VELOCITY (FT/SEC)	= 376
MASS FLOW RATIO	= 2182.867
PRIMARY MASS FLOW (LB/SEC)	= 3.642
THRUST (LBS)	= 270
ENVIRONMENTAL TEMPERATURE (R)	= 44.777
ENVIRONMENTAL PRESSURE (IN.HG)	= 550.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.610
CALIBRATION FACTOR (MV TO 0Y/5Z C-1)	= 24.000
INSTRUMENTATION NOISE FLOOR (DB)	= .178
	= 74.588

TYPIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.1052E+01	146.1	THRUST	POWER LEVEL (DB)
500	1.8764E-01	122.7	10000	169.6
1000	1.2981E+00	131.1	20000	172.6
2000	5.3599E+00	137.3	40000	175.6
4000	1.1073E+01	140.4	80000	178.7
8000	1.3844E+01	141.6		
16000	6.6801E+00	138.4		
31500	2.3712E+00	133.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	102.8	107.3	109.4	109.2	105.8	100.8	94.9	114.7
20.0	102.8	106.3	112.5	113.0	110.5	101.8	94.6	117.9
25.0	102.1	110.0	114.5	115.4	113.3	104.1	98.4	120.0
30.0	100.4	109.7	115.0	115.5	114.2	106.4	98.6	120.4
35.0	80.6	108.0	114.9	117.0	116.3	118.0	101.8	121.5
40.0	97.2	106.5	114.5	117.5	117.9	114.3	106.0	122.6
45.0	94.7	105.5	112.4	117.3	118.6	116.0	109.3	122.9
50.0	91.9	101.2	110.0	116.2	118.2	115.2	109.4	122.1
55.0	89.4	97.7	105.8	112.3	115.4	112.7	107.4	119.1
60.0	88.0	95.4	103.3	109.2	112.5	110.7	105.9	118.6
65.0	87.6	93.8	100.2	105.2	108.6	107.8	104.2	113.5
70.0	86.2	92.4	98.1	102.6	105.8	105.5	105.3	111.1
75.0	86.2	92.4	97.0	100.6	103.6	104.1	104.0	109.7
80.0	85.9	91.3	96.4	99.8	102.5	103.6	103.0	108.8
85.0	85.5	90.4	95.3	98.7	101.4	102.8	102.0	107.4
90.0	85.5	90.1	95.0	97.7	100.9	102.0	101.2	107.2
95.0	84.6	89.1	94.0	97.0	100.0	101.5	100.8	106.5
100.0	84.6	88.5	93.2	96.4	99.8	101.0	100.0	106.0
105.0	82.5	88.1	93.0	96.4	99.2	100.8	99.9	105.7
110.0	81.9	87.8	92.1	96.1	99.0	100.5	99.5	105.4
115.0	81.3	87.1	91.6	95.9	98.9	100.0	99.1	105.0

MODEL THRUST = 44.777 FULL SCALE THRUST = 20000.000

L.	PROB.	DASPL	OCTAVE 23.7	BAND 47.3	SOUND 94.6	PRESSURE 189.3	LEVELS 378.5	757.1	1490.5	2980.9	5914.6	11829.1	23658.3
5.6	86.61 (86.4)	85.9	74.54	79.07	80.99	80.34	75.62	67.28	53.41	33.59	-2.39	-64.67	-163.83
5.7	83.01 (82.6)	91.5	76.97	83.43	86.60	86.72	83.27	72.03	54.97	43.09	15.13	-32.73	-107.89
9.3	97.61 (97.1)	95.5	78.16	86.03	90.66	91.04	84.19	76.89	64.44	51.01	27.82	-11.49	-72.89
0.0	100.21 (99.6)	97.4	77.96	87.18	92.41	92.64	92.76	81.18	69.38	57.57	37.50	3.81	-48.55
5.7	103.31 (102.5)	99.7	59.30	86.72	93.44	95.43	94.13	86.28	74.60	63.52	46.04	16.29	-29.74
3.6	106.41 (105.4)	101.6	76.87	86.15	94.14	96.94	97.80	91.82	80.43	70.57	54.79	27.42	-13.67
1.3	108.71 (108.8)	102.6	75.24	84.04	92.87	97.58	98.37	94.82	85.01	75.78	60.71	36.01	-11.89
1.1	108.51 (107.6)	102.5	73.16	82.44	91.12	97.22	98.81	94.62	84.17	77.41	63.27	40.24	5.02
1.2	106.51 (104.8)	100.1	71.18	79.67	87.55	93.84	94.78	92.84	85.11	76.73	63.31	41.58	8.45
2.1	104.71 (102.7)	97.9	70.24	77.63	85.54	91.32	94.24	91.37	85.24	77.15	64.30	43.58	12.08
5.1	102.41 (100.8)	95.1	70.32	76.50	82.47	87.71	90.78	84.98	77.27	66.46	44.93	13.69	
5.3	101.01 (98.4)	93.1	69.24	75.35	81.07	85.43	88.23	87.07	84.71	77.02	64.44	45.61	10.34
2.9	94.91 (97.3)	91.7	69.48	75.60	80.71	83.42	85.90	83.75	76.19	64.36	45.47	10.92	
3.1	94.21 (96.5)	91.1	69.26	74.72	79.71	83.07	85.41	85.60	82.95	75.47	63.90	45.22	17.16
5.7	98.41 (95.0)	90.2	68.95	73.84	78.77	82.03	84.43	84.06	82.11	74.68	63.12	44.71	16.94
3.0	97.71 (95.0)	89.6	68.90	73.66	78.40	81.11	83.96	84.17	81.40	73.99	62.46	44.11	16.43
5.7	97.01 (94.3)	88.8	68.09	72.54	77.40	80.37	83.00	83.60	80.89	73.46	61.90	43.49	15.72
5.1	96.31 (93.6)	88.2	67.09	71.44	76.53	79.63	82.69	81.61	80.00	72.53	60.86	42.28	14.22
2.9	95.81 (93.1)	87.7	65.76	71.36	76.16	79.44	81.89	82.41	79.44	72.08	60.24	41.34	12.40
2.3	95.11 (92.4)	87.1	64.93	70.79	75.05	78.45	81.42	82.03	78.90	71.21	59.13	39.80	10.53
5.1	94.21 (91.6)	86.4	63.97	69.78	74.26	78.35	80.98	81.13	78.03	70.16	57.75	37.82	7.59

MODEL NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 204.000
PRIMARY TEMPERATURE (IN)	= 0.000
SECONDARY TEMPERATURE (IN)	= 1310.000
PRIMARY PRESSURE (PSI)	= 540.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 0.788
PRIMARY VELOCITY (FT/SEC)	= 377
MASS FLOW RATIO	= 2140.372
PRIMARY MASS FLOW (LB/SEC)	= 7.290
THRUST (LBS)	= 270
ENVIRONMENTAL TEMPERATURE (IN)	= 60.470
ENVIRONMENTAL PRESSURE (IN.HG)	= 542.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.530
CALIBRATION FACTOR (INV TO 0Y/50 CM)	= 25.000
INSTRUMENTATION NOISE FLOOR (DB)	= 140
	= 75.578

C POWER AND SOUND POWER LEVEL FOR MODEL JET

QUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
ERALL	4.15112E+01	147.9	THRUST	POWER LEVEL (DB)
500	2.32433E-01	123.7	10000	169.5
1000	1.21743E+00	130.9	20000	172.5
2000	4.17406E+00	136.2	40000	175.6
4000	9.37390E+00	139.7	60000	176.6
8000	1.88630E+01	142.8		
16000	1.66178E+01	142.2		
31500	1.10326E+01	140.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 16000	31500	OVER ALL
5.0	103.9	108.0	108.7	108.7	112.1	111.3	105.9	117.6
10.0	103.2	108.9	110.6	111.2	114.6	113.9	108.3	119.8
15.0	101.9	109.9	112.6	113.3	116.3	115.1	109.6	121.3
20.0	100.6	108.5	113.4	114.1	116.7	116.3	111.1	122.0
25.0	98.8	107.4	113.6	115.4	117.2	116.2	112.7	122.5
30.0	97.9	105.3	112.8	116.9	118.4	117.4	114.0	123.4
35.0	94.6	103.0	111.2	116.5	119.0	117.5	114.0	123.5
40.0	92.3	101.3	109.2	115.5	119.4	117.9	114.2	123.4
45.0	90.4	98.7	106.5	112.3	116.6	116.2	113.7	121.3
50.0	89.5	96.9	103.8	109.4	114.0	114.0	112.3	119.0
55.0	88.9	95.8	101.6	108.3	110.8	112.0	111.9	116.9
60.0	87.6	94.7	100.4	104.7	108.6	109.9	110.6	115.2
65.0	88.0	93.4	99.1	103.1	107.2	109.1	110.6	114.5
70.0	88.0	93.0	98.3	102.1	105.2	107.7	110.0	113.4
75.0	87.2	92.1	97.2	101.1	104.2	106.8	110.3	113.0
80.0	86.4	93.6	96.6	100.1	103.3	106.0	109.2	112.1
85.0	86.0	91.1	95.8	99.0	102.4	105.0	108.0	111.0
90.0	85.1	90.6	95.7	98.4	102.0	104.9	107.7	110.7
95.0	84.1	89.7	94.6	97.5	101.5	104.8	107.0	110.2
100.0	85.1	90.0	94.2	97.1	101.0	104.7	107.0	110.1
15.0	83.5	88.5	93.3	96.4	101.0	104.7	107.0	110.0

MODEL THRUST = 60.470 FULL SCALE THRUST = 20000.000

PNOB.	OASPL	29.3	OCTAVE 58.5	BAND 117.0	SOUND 234.0	PRESSURE 468.1	LEVELS 936.2	1843.1	3686.2	7313.8	14627.6	29255.3
6	88.8 (88.6)	85.1	73.85	77.83	78.32	77.71	79.39	74.11	58.87	34.71	-8.08	-80.42 -191.40
7	94.7 (94.3)	90.0	75.58	81.21	82.78	82.92	84.92	80.90	67.80	48.79	15.68	-39.80 -124.50
3	98.9 (98.3)	93.7	76.07	84.06	86.68	86.97	88.83	85.01	73.40	57.43	30.07	-15.40 -84.52
0	101.6 (100.8)	96.0	76.25	84.16	88.91	89.34	91.02	88.25	78.01	64.06	40.46	1.57 -57.32
2	103.8 (102.8)	97.7	75.65	84.25	90.38	91.80	92.82	89.86	81.85	69.30	48.35	14.05 -27.66
8	106.1 (104.9)	93.6	74.87	83.08	90.55	94.28	95.20	92.43	84.99	73.46	54.44	23.52 -22.95
3	107.5 (106.1)	100.7	73.32	81.89	89.73	94.87	96.73	93.53	87.04	76.34	58.77	30.39 -12.13
1	108.3 (106.8)	101.3	71.63	80.68	88.53	94.54	97.87	94.88	87.81	77.66	61.22	34.79 -4.69
2	107.0 (105.2)	99.8	70.32	78.90	86.38	92.01	95.89	93.43	88.24	78.55	62.98	38.07 .96
1	105.6 (103.7)	97.7	69.98	77.31	84.14	89.57	93.62	92.35	87.64	78.32	63.43	39.70 4.43
1	105.4 (102.9)	95.8	69.78	76.58	82.36	88.92	90.66	90.81	87.86	78.82	64.66	41.65 7.82
3	103.9 (101.8)	94.4	69.75	75.78	81.46	85.65	89.07	89.08	87.07	78.24	64.29	42.19 9.45
9	103.9 (101.6)	93.8	69.34	74.74	80.43	84.29	87.88	88.40	87.44	78.77	65.11	43.53 11.60
1	103.3 (100.9)	92.8	69.51	74.50	79.76	83.38	86.09	87.40	87.12	78.55	65.10	43.87 12.50
7	103.3 (100.9)	92.4	68.89	73.73	78.79	82.51	85.18	86.62	87.54	79.04	65.70	44.69 13.64
0	102.4 (99.9)	91.5	68.13	75.24	78.39	81.54	84.29	85.84	86.45	77.97	64.67	43.73 12.78
7	101.2 (99.7)	90.4	67.67	72.77	77.40	80.37	83.39	84.82	85.29	76.70	63.77	42.35 11.30
1	100.7 (98.3)	90.0	66.60	72.14	77.14	79.70	82.66	84.56	84.82	76.25	62.80	41.57 10.20
9	99.8 (97.4)	89.2	65.47	71.12	75.88	78.67	82.14	84.29	83.81	75.14	61.88	39.90 7.47
3	99.4 (97.0)	88.8	66.25	71.17	75.24	78.02	81.41	83.92	83.51	74.68	60.72	38.62 5.88
1	98.7 (96.4)	88.2	64.35	69.27	74.09	76.99	81.09	83.54	82.96	73.91	59.55	36.75 2.91

WWT NUMBER	= 265.000
AXIAL POSITION OF PRIMARY WWT, SECONDARY (INS.)	= 0.001
PRIMARY TEMPERATURE (IN)	= 1314.000
SECONDARY TEMPERATURE (IN)	= 542.000
PRIMARY PRESSURE (PSI)	= 3.500
AREA RATIO	= 9.788
VELOCITY RATIO	= .478
PRIMARY VELOCITY (FT/SEC)	= 2187.699
MASS FLOW RATIO	= 10.000
PRIMARY MASS FLOW (LB/SEC)	= .270
THRUST (LBS)	= 106.454
ENVIRONMENTAL TEMPERATURE (IN)	= 535.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.530
ENVIRONMENTAL HUMIDITY (PER CENT)	= 33.000
CALIBRATION FACTOR (IN TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 75.578

POWER AND SOUND POWER LEVEL FOR MODEL JET

WENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
			THRUST	POWER LEVEL (DB)
TOTAL	6.63580E+01	148.2	10000	167.9
500	6.60242E-01	128.2	20000	171.0
1000	3.36539E+00	133.3	40000	174.0
2000	7.47541E+00	138.7	80000	177.0
4000	1.14704E+01	140.6		
8000	1.80342E+01	142.6		
16000	1.61544E+01	142.1		
31500	9.19252E+00	139.6		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

3LE (°)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
5.0	108.9	112.8	111.8	115.7	112.2	110.1	104.8	120.4
0.0	107.8	113.7	113.8	112.1	114.5	113.4	109.0	121.0
5.0	106.7	114.6	115.0	113.4	115.5	115.0	110.1	122.1
0.0	104.6	113.3	115.9	114.9	116.1	115.1	110.3	122.5
5.0	103.0	111.7	116.0	116.2	117.0	117.2	113.2	123.4
0.0	101.1	109.5	115.2	116.9	117.4	116.3	113.0	123.2
5.0	98.9	107.1	113.4	116.8	117.8	116.4	113.6	123.1
0.0	96.4	104.2	111.0	115.7	116.4	116.3	113.0	122.7
5.0	94.6	101.9	108.9	113.3	116.8	115.9	113.0	121.4
0.0	93.8	100.7	106.6	110.7	114.3	114.2	112.3	119.4
5.0	94.0	99.1	104.5	108.3	111.5	112.0	111.7	117.5
0.0	93.3	98.9	103.8	106.9	110.1	110.7	110.1	116.1
5.0	92.7	98.0	102.6	105.8	108.6	109.9	109.3	115.1
0.0	92.3	97.5	102.1	104.9	107.5	109.3	108.2	114.2
5.0	91.8	96.6	101.2	104.0	106.7	108.9	107.5	113.5
0.0	90.9	95.9	100.2	102.9	106.1	108.6	107.5	113.1
5.0	90.9	95.3	99.6	102.0	105.6	107.6	107.0	112.4
0.0	89.5	95.0	99.2	101.5	105.6	107.4	106.8	112.2
5.0	89.5	94.7	98.6	101.0	105.6	107.3	106.3	112.0
0.0	88.3	94.3	98.3	100.8	106.3	107.5	106.3	112.2
5.0	88.3	93.4	97.6	100.6	106.8	107.4	105.6	112.0

MODEL THRUST = 106.454 FULL SCALE THRUST = 20000.000

PNOB:	OASPL	36.5	OCTAVE	BAND	SOUND	PRESSURE	LEVELS												
			73.0	145.9	291.8	583.7	1167.3	2298.1	4596.3	9119.6	18239.2	36478.3							
6	89.9 (89.8)	86.8	76.88	80.56	79.45	82.46	76.57	68.59	50.58	21.29	-29.58	-113.35	-237.86						
7	89.2 (89.9)	84.6	78.25	84.86	83.84	81.52	82.16	76.64	61.67	38.78	-45	-64.57	-159.52						
3	87.0 (90.7)	92.7	73.96	86.78	87.03	84.86	85.58	81.43	68.81	49.72	17.40	-35.07	-112.48						
0	87.5 (89.0)	94.7	78.35	86.98	89.44	87.94	87.99	83.93	72.60	56.00	28.21	-16.60	-82.49						
2	102.3 (101.6)	96.6	77.92	86.59	90.78	90.54	90.27	87.82	78.11	63.26	38.95	-89	-58.62						
4	103.6 (102.8)	97.5	77.06	85.36	90.98	92.22	91.90	88.36	79.99	66.41	44.13	6.61	-43.32						
3	104.7 (103.8)	98.1	75.64	83.79	90.02	93.12	93.18	89.65	82.26	69.64	49.12	16.54	-30.92						
1	105.4 (104.4)	98.4	73.84	81.67	88.33	92.72	94.60	90.59	82.99	71.11	51.93	21.64	-22.41						
2	104.9 (103.7)	97.6	72.68	79.87	86.79	90.97	93.72	90.92	84.05	72.75	54.62	26.18	-15.29						
1	104.0 (102.7)	95.9	72.32	79.16	84.96	88.82	91.75	89.90	84.17	73.32	56.01	28.87	-10.44						
1	103.4 (102.0)	94.2	72.39	77.97	83.35	86.84	89.61	84.21	74.31	73.91	57.13	31.87	-9.63						
3	102.4 (101.0)	93.2	72.48	78.08	82.90	85.41	88.29	87.32	83.24	73.00	56.81	31.57	-4.90						
9	101.9 (100.4)	92.4	72.14	77.44	82.00	84.94	87.19	86.85	82.83	72.79	56.96	32.32	-3.74						
1	101.2 (99.7)	91.8	71.89	77.14	81.42	84.22	86.21	84.42	82.05	72.15	56.57	32.34	-2.60						
7	103.6 (99.1)	91.2	71.56	76.33	80.87	83.39	85.50	86.20	81.52	71.69	56.25	32.27	-2.30						
0	100.4 (98.0)	90.7	70.65	75.66	79.86	82.38	84.91	85.69	81.51	71.71	56.32	32.41	-2.04						
7	99.7 (98.1)	89.9	70.67	75.82	79.29	81.39	84.37	84.83	80.95	71.12	55.48	31.70	-2.87						
1	99.3 (97.7)	89.6	69.18	74.60	78.76	80.71	82.26	84.54	80.58	70.58	55.04	30.87	-4.07						
9	99.7 (97.2)	89.3	69.01	74.09	78.01	80.13	84.30	84.27	80.42	69.78	53.95	29.31	-6.25						
3	99.3 (96.4)	89.1	67.53	73.51	77.40	79.70	84.57	84.12	79.41	69.18	52.99	27.74	-8.72						
1	97.4 (96.0)	88.7	67.21	72.26	76.42	79.20	84.63	83.60	78.22	67.71	51.04	24.97	-12.73						

RUN NUMBER	214.000
ASIAL POSITION IN PRIMARY WHT. SECONDARY (INCH)	0
PRIMARY TEMPERATURE (IN)	0
SECONDARY TEMPERATURE (IN)	0
PRIMARY PRESSURE (IN)	0
SECONDARY PRESSURE (IN)	0
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	0.366
MASS FLOW RATIO	0.897287
PRIMARY MASS FLOW (LBS/SEC)	0.321
THRUST (LBS)	0.207
ENVIRONMENTAL TEMPERATURE (IN)	0.404
ENVIRONMENTAL PRESSURE (IN.HG)	0.924000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.470
CALIBRATION FACTOR (IN TO OUT/IN CH)	0.000
INSTRUMENTATION NOISE FLOOR (DB)	0.007
	0.000

Reproduced from
best available copy.

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	7.44002E-02	114.7	THRUST 10000 POWER LEVEL (DB) 150.7
500	6.92732E-04	98.4	20000 153.7
1000	3.74511E-03	105.8	40000 156.7
2000	1.73246E-02	112.6	80000 159.7
4000	2.02477E-02	113.1	
8000	1.45344E-02	112.7	
16000	9.33445E-03	104.7	
31500	4.00099E-03	100.0	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	77.7	85.6	91.5	89.4	86.2	76.5	69.7	84.8
20.0	76.6	84.7	91.2	90.3	85.3	77.9	72.2	95.0
25.0	75.3	83.7	90.1	89.6	86.3	79.7	74.1	94.4
30.0	73.9	82.2	89.2	89.5	87.7	82.2	77.0	94.3
35.0	72.6	80.4	87.5	88.5	87.9	83.3	78.3	93.6
40.0	70.8	78.1	85.6	86.9	87.2	83.0	79.6	92.5
45.0	70.0	76.6	83.7	85.3	85.0	83.4	79.6	91.2
50.0	68.3	74.8	82.3	84.1	85.0	82.6	79.6	90.2
55.0	67.3	74.1	81.1	83.2	84.2	82.1	79.0	89.4
60.0	67.2	73.3	80.0	82.1	83.3	81.4	79.5	88.6
65.0	66.6	72.5	79.1	81.3	82.7	80.7	77.4	87.8
70.0	66.3	71.9	78.1	80.7	82.0	80.2	77.5	87.2
75.0	65.3	71.3	77.5	80.1	81.2	79.5	76.9	86.5
80.0	65.2	71.3	77.1	79.6	80.7	79.0	76.5	86.0
85.0	64.3	70.6	76.6	79.1	80.6	78.7	75.0	85.7
90.0	64.5	70.3	76.1	78.5	79.8	78.0	75.5	85.1
95.0	63.7	69.7	75.4	78.0	79.7	77.8	75.3	84.7
100.0	63.9	69.6	74.9	77.6	79.1	77.4	74.9	84.3
105.0	62.8	69.5	74.0	77.2	78.7	76.5	74.4	83.8
110.0	62.8	69.0	74.4	76.7	78.0	76.2	74.0	83.3
115.0	62.4	68.6	73.8	76.2	77.8	75.6	73.8	82.9

MODEL THRUST = 6.400 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE 8.9	BAND 17.9	SOUND 35.9	PRESSURE 71.6	LEVELS 143.2	246.3	543.7	1127.1	2236.7	4473.4	8946.9
795.4	68.01	67.01	75.0	57.96	65.79	71.74	64.56	64.03	55.48	46.42	37.02	22.41	-6.20
805.7	72.41	71.01	77.5	59.26	67.33	73.44	72.43	67.62	59.65	52.19	44.95	32.56	10.19
849.3	75.71	73.91	78.8	59.82	68.17	74.41	74.02	70.59	63.47	56.47	50.54	39.44	20.76
908.0	79.11	76.41	80.2	59.91	68.17	75.17	75.36	73.47	67.53	61.19	55.29	45.44	29.61
915.2	80.91	78.31	83.6	59.76	67.46	74.63	75.42	74.97	69.92	63.90	58.37	49.77	35.22
933.4	81.41	79.01	83.5	59.00	66.27	73.70	75.16	74.19	71.52	64.18	60.42	52.53	39.62
121.3	82.41	79.11	80.1	58.49	65.55	72.64	74.21	74.72	71.93	67.30	62.25	54.71	42.36
150.1	87.61	74.41	78.0	57.96	64.42	71.93	73.74	74.58	71.46	68.04	63.15	55.95	44.30
231.2	87.61	78.91	79.6	57.54	64.22	71.36	73.44	74.30	71.97	68.04	63.31	56.39	45.30
332.1	82.01	78.71	76.2	57.75	64.66	70.75	72.40	73.43	71.91	68.20	63.52	56.42	46.16
455.1	82.31	78.31	78.9	57.72	63.64	70.25	72.43	73.75	71.44	67.94	63.33	56.79	46.48
546.3	82.11	79.01	78.0	57.74	63.37	69.54	72.13	73.33	71.27	67.04	63.40	56.48	46.93
552.9	81.71	77.41	74.1	57.33	63.03	69.16	71.78	72.80	70.41	67.43	63.13	56.41	46.95
523.1	81.51	77.21	77.8	57.33	63.20	69.43	71.18	72.41	70.55	67.36	62.89	56.43	46.90
508.7	81.21	77.01	77.6	56.23	62.46	68.45	71.07	72.40	70.31	67.07	62.62	56.39	46.74
505.4	81.61	76.31	77.0	56.45	62.30	68.48	70.46	71.71	69.66	66.60	62.15	55.94	46.32
505.7	81.71	76.11	77.7	56.45	62.33	68.48	70.46	71.71	69.66	66.60	62.15	55.94	46.32
523.1	79.71	75.41	77.1	56.75	61.44	68.78	70.42	71.43	69.44	66.63	61.35	55.07	45.36
552.9	79.91	76.51	75.5	56.43	61.15	68.44	70.11	71.11	69.14	66.06	61.33	54.73	44.47
590.1	74.11	73.41	74.7	56.24	60.47	67.43	69.43	71.33	69.43	66.43	61.43	54.43	43.43
655.1	77.41	73.11	74.2	55.42	60.44	67.44	69.44	71.44	69.44	66.44	61.44	54.44	43.44

RUN NUMBER	816.000
AXIAL POSITION OF PRIMARY WPT. SECONDARY (INCH)	4.000
PRIMARY TEMPERATURE (IN)	520.000
SECONDARY TEMPERATURE (IN)	530.000
PRIMARY PRESSURE (IN)	1.000
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	896.000
MASS FLOW RATIO	1.000
PRIMARY MASS FLOW (LB/SEC)	1.000
THRUST (LBS)	9.055
ENVIRONMENTAL TEMPERATURE (IN)	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.970
ENVIRONMENTAL HUMIDITY (PER CENT)	60.000
CALIBRATION FACTOR (INV TO UV/50 CM)	1.000
INSTRUMENTATION NOISE FLOOR (DB)	60.000

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	7.43175E-02	110.7	10000	149.1
500	6.91046E-03	108.4	20000	152.2
1000	4.25941E-03	106.3	40000	155.2
2000	1.63763E-02	112.1	80000	158.2
4000	1.72206E-02	112.4		
8000	1.51655E-02	111.0		
10000	8.55465E-03	109.3		
31500	5.82154E-03	107.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 10000	31500	OVER ALL
15.0	79.1	85.8	91.0	87.7	80.6	73.4	73.8	93.9
20.0	78.1	85.5	90.8	88.6	82.6	75.2	74.3	94.1
25.0	77.2	83.9	89.9	88.6	84.7	77.9	75.3	93.8
30.0	74.8	82.3	88.4	88.5	86.8	80.2	76.8	93.3
35.0	73.8	80.3	86.9	87.6	86.6	82.1	78.5	92.7
40.0	72.1	78.2	85.2	86.3	86.1	82.0	79.6	91.6
45.0	71.0	76.6	83.7	84.6	85.2	82.7	80.0	90.8
50.0	69.9	75.6	82.4	83.7	84.2	82.1	79.8	89.9
55.0	69.0	74.9	81.1	82.7	83.7	81.6	79.9	89.2
60.0	68.1	74.2	80.6	82.2	82.7	81.1	79.3	88.9
65.0	68.1	73.7	79.5	81.2	82.2	80.6	79.0	87.9
70.0	68.2	73.5	78.8	80.6	81.0	80.3	78.9	87.4
75.0	67.5	72.9	77.9	80.0	80.4	79.5	78.2	86.7
80.0	67.1	72.2	77.5	79.6	80.6	79.3	78.1	86.4
85.0	66.6	72.4	76.9	79.0	80.0	78.7	77.7	85.8
90.0	66.1	71.4	76.6	78.8	79.7	78.2	77.5	85.5
95.0	66.0	71.4	76.3	78.1	79.5	78.0	77.3	85.2
100.0	65.8	70.8	75.8	77.6	78.7	77.6	77.0	84.7
105.0	65.2	70.5	75.3	77.1	78.6	77.3	76.7	84.3
110.0	65.0	70.0	74.7	76.7	78.0	76.9	76.5	83.9
115.0	64.8	69.6	74.4	76.2	77.6	76.6	76.4	83.6

MODEL THRUST = 9.055 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	10.6	OCTAVE 21.3	BAND 42.6	SOUND 85.1	PRESSURE 170.2	LEVELS 340.5	670.3	1340.5	2680.0	5319.6	10639.2
8795.6	65.71	64.41	72.5	57.86	64.54	69.66	68.23	58.75	60.48	60.06	38.14	20.16	-13.01
4385.7	70.11	68.61	75.2	59.27	66.60	71.92	69.66	63.37	65.15	62.09	43.05	29.51	3.68
3549.3	73.91	72.01	76.6	60.17	68.92	72.83	71.48	67.33	69.07	65.60	48.36	36.19	14.72
3080.8	76.81	74.61	77.6	59.23	66.71	72.54	72.89	70.13	63.82	64.95	52.37	41.62	23.00
2615.2	79.61	76.51	78.2	59.47	65.46	72.56	72.95	71.96	67.03	62.14	56.02	46.76	29.65
2333.6	80.31	77.41	78.3	58.73	64.45	71.40	72.85	72.55	68.82	64.39	54.60	49.57	34.43
2121.3	81.01	77.81	78.1	58.49	64.10	71.13	72.24	72.47	69.52	65.96	60.33	51.84	37.80
1950.1	81.31	77.41	77.9	58.08	63.71	70.50	71.84	72.23	69.66	66.47	61.13	53.87	39.88
1831.2	81.61	77.91	77.8	57.72	63.62	69.79	71.43	72.20	69.82	67.21	62.02	54.29	41.76
1732.1	82.71	79.21	82.1	58.42	63.42	69.40	71.34	71.72	69.81	67.22	62.15	54.48	42.66
1655.1	81.61	77.71	77.6	57.49	63.29	69.19	70.70	71.65	69.79	67.34	62.42	55.14	43.52
1596.3	81.71	77.71	77.3	56.11	63.00	68.73	70.41	71.63	69.74	67.52	62.61	55.49	44.19
1557.9	81.21	77.11	76.8	57.73	63.06	68.64	70.15	70.91	69.24	67.17	62.32	55.31	44.22
1523.1	81.21	77.11	76.6	57.50	62.54	67.47	69.44	70.76	69.23	67.30	62.48	55.55	44.62
1505.7	80.81	76.61	76.2	57.03	62.40	67.36	69.46	70.33	68.75	66.95	62.15	55.26	44.42
1500.0	80.51	76.21	75.9	56.62	61.92	67.04	69.19	70.01	68.27	66.85	62.06	55.18	44.38
1505.7	80.21	75.91	75.4	56.44	61.84	66.71	68.54	69.82	68.02	66.61	61.91	54.92	44.03
1523.1	79.61	75.31	74.9	56.11	61.15	66.47	67.40	68.44	67.52	66.13	61.31	54.38	43.44
1552.9	79.11	74.81	74.4	55.75	60.49	65.44	67.22	68.44	67.05	65.72	60.76	53.45	42.77
1596.3	78.41	74.11	73.8	54.94	59.45	64.40	66.43	67.77	66.37	65.22	60.31	53.18	41.47
1655.1	77.61	73.21	73.1	54.45	58.71	64.01	65.74	67.10	65.79	64.78	59.80	52.52	40.91

RUN NUMBER	217.000
ORIAL POSITION OF PRIMARY DRT. SECONDARY (INCH.)	9.400
PRIMARY TEMPERATURE (IN)	533.000
SECONDARY TEMPERATURE (IN)	527.000
PRIMARY PRESSURE (IN)	1.600
AREA RATIO	1.000
VELOCITY RATIO	.994
PRIMARY VELOCITY (FT/SEC)	900.324
MASS FLOW RATIO	1.214
PRIMARY MASS FLOW (LB/SEC)	.207
THRUST (LBS)	12.752
ENVIRONMENTAL TEMPERATURE (R)	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	69.000
CALIBRATION FACTOR (IN. TO OY/SI IN)	.004
INSTRUMENTATION NOISE FLOOR (DB)	47.512

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.25025E-01	121.0	THRUST	POWER LEVEL (DB)
500	1.76243E-03	102.5	10000	149.9
1000	7.76657E-03	104.9	20000	152.9
2000	2.27602E-02	113.8	40000	155.9
4000	2.70024E-02	114.3	80000	158.9
8000	2.82343E-02	114.5		
16000	2.11669E-02	113.3		
31500	1.48640E-02	111.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	81.5	88.0	91.3	87.5	83.1	79.2	76.9	94.8
30.0	80.2	87.3	91.3	88.9	85.0	80.4	78.0	95.1
45.0	79.0	86.4	90.9	89.9	86.6	82.0	79.5	95.3
60.0	77.7	85.3	89.6	89.5	87.7	83.5	80.9	94.8
75.0	76.3	82.7	88.1	89.0	88.3	84.6	81.3	94.4
90.0	74.2	81.1	86.9	88.0	88.1	85.4	82.6	93.9
105.0	73.2	79.9	85.8	87.0	87.8	85.7	83.1	93.4
120.0	72.7	78.8	84.5	86.0	86.9	85.4	83.4	92.6
135.0	72.0	78.2	83.7	85.4	86.3	85.2	83.4	92.2
150.0	72.0	77.7	83.3	85.0	85.0	85.3	83.6	91.9
165.0	70.8	76.9	82.4	84.1	85.7	84.3	83.0	91.1
180.0	71.4	76.4	81.8	83.5	84.8	83.9	82.4	90.6
195.0	70.3	74.3	81.2	83.0	84.1	83.7	82.6	90.3
210.0	70.4	76.0	81.0	82.4	83.7	83.4	82.3	89.9
225.0	69.7	75.2	80.2	81.9	83.2	82.9	82.0	89.4
240.0	69.0	74.6	79.9	81.5	83.0	82.8	82.0	89.2
255.0	68.2	74.3	79.4	81.0	82.6	82.8	81.6	88.9
270.0	67.9	74.0	79.2	80.6	82.4	82.4	81.4	88.5
285.0	67.7	73.7	78.7	80.2	82.2	82.3	81.6	88.4
300.0	67.4	73.0	78.4	79.6	82.1	82.4	81.7	88.3
315.0	67.5	72.3	77.6	79.4	81.7	82.5	81.7	88.1

MODEL THRUST = 12.752 FULL SCALE THRUST = 20000.000

L.	PROR.	OASPL	12.6	25.3	50.5	101.0	202.0	404.0	LEVELS	795.4	1590.8	3154.4	6312.8	12625.5
1795.6	67.21	66.01	71.8	58.72	65.25	68.44	64.56	59.64	54.36	48.44	36.95	16.83	-22.23	-87.50
1385.7	72.01	70.51	74.6	59.86	66.45	70.93	66.37	61.08	56.49	53.41	43.98	27.42	-2.26	-52.38
1540.2	75.21	74.01	76.6	60.47	67.96	72.15	71.23	67.69	62.16	57.53	49.33	39.35	10.76	-30.38
1880.0	78.01	76.41	77.6	60.68	67.24	72.53	72.32	70.26	64.39	60.93	53.54	41.24	-5.01	-13.22
1615.2	80.51	78.11	78.3	60.47	66.90	72.24	73.11	72.09	67.81	62.91	56.08	44.49	24.08	-5.02
1333.4	81.91	79.21	78.8	59.33	66.26	72.08	73.10	72.48	64.64	65.42	57.01	48.79	31.59	3.52
1121.3	83.11	79.91	79.0	59.22	65.12	71.73	72.94	73.51	70.88	64.96	60.86	51.29	35.39	9.60
1950.1	83.51	83.31	79.0	59.33	65.44	71.14	72.62	73.20	71.54	68.16	62.31	53.25	38.34	14.30
1031.2	84.11	80.61	79.1	59.30	65.62	70.99	72.61	73.78	71.83	68.88	63.28	54.54	40.40	17.72
1732.1	84.71	81.01	78.4	59.78	65.44	70.48	72.03	73.48	72.37	69.62	64.08	55.72	42.19	20.58
1655.1	84.31	80.51	79.0	58.98	65.84	70.52	72.20	73.01	71.88	69.42	64.07	55.95	42.88	22.10
1546.3	84.31	80.41	78.8	59.87	64.47	70.19	71.84	73.01	71.76	69.45	64.11	56.17	43.46	23.31
1552.9	84.41	80.41	78.7	59.83	65.00	70.48	71.43	72.58	71.86	69.77	64.50	56.69	44.25	24.56
1523.1	84.31	80.21	78.5	59.30	64.43	69.86	71.18	72.34	71.65	69.71	64.48	56.76	44.50	25.13
1505.7	83.91	79.81	78.1	58.64	64.14	69.17	70.43	71.97	71.31	69.51	64.31	56.65	44.49	25.31
1500.0	83.41	79.71	77.9	57.97	63.54	68.42	70.17	71.82	71.24	69.56	64.31	56.67	44.54	25.42
1505.7	83.41	79.41	77.6	57.17	63.21	67.17	69.94	71.42	71.17	69.37	64.12	56.46	44.30	25.12
1523.1	83.11	79.41	77.2	56.40	62.12	66.11	67.39	71.02	70.67	68.76	63.55	55.84	43.57	24.20
1552.9	82.41	78.61	76.8	56.35	62.43	67.42	68.92	70.72	70.42	68.77	63.50	55.70	43.25	23.44
1554.3	82.51	78.31	76.4	55.82	61.44	66.40	67.94	70.31	70.01	68.54	63.20	55.26	42.55	22.43
1655.1	82.11	77.91	75.9	55.44	60.41	65.74	67.47	70.05	69.21	67.84	62.84	54.72	41.65	20.47

WIND NUMBER	
AXIAL POSITION OF PRIMARY WPT, SECONDARY (INS.)	216.000
PRIMARY TEMPERATURE (IN)	9.400
SECONDARY TEMPERATURE (IN)	530.000
PRIMARY PRESSURE RATIO	927.000
AREA RATIO	1.400
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	1.145
MASS FLOW RATIO	897.757
PRIMARY MASS FLOW (LH/SEC)	1.490
THRUST (LBS)	207
ENVIRONMENTAL TEMPERATURE (IN)	19.590
ENVIRONMENTAL PRESSURE (IN.HG)	524.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.470
CALIBRATION FACTOR (INV TO DY/SJ CM)	40.000
INSTRUMENTATION NOISE FLOOR (DB)	0.010
	49.579

ISIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.17205E-01	123.4	THRUST	POWER LEVEL (DB)
500	2.47520E-03	103.9	10000	151.4
1000	1.16498E-02	110.7	20000	154.4
2000	3.48170E-02	115.4	40000	157.5
4000	4.66071E-02	116.7	80000	162.5
8000	5.10779E-02	117.1		
16000	4.12525E-02	116.2		
31500	2.93250E-02	114.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	6000	16000	31500	ALL
15.0	82.9	89.0	92.1	90.3	88.3	83.8	79.9	96.7
20.0	81.8	89.1	92.5	91.2	89.0	85.0	81.7	97.3
25.0	80.4	87.8	92.0	91.7	89.0	85.5	82.7	97.2
30.0	79.2	86.3	91.2	92.4	91.0	86.9	83.8	97.4
35.0	77.3	84.9	89.8	91.6	91.1	87.7	84.6	97.0
40.0	76.2	83.3	88.6	90.5	90.9	88.4	85.7	96.4
45.0	74.7	81.9	87.1	89.5	90.2	88.5	86.0	95.7
50.0	74.3	80.7	86.0	88.1	89.2	88.1	86.2	94.9
55.0	73.2	80.1	85.2	87.4	88.6	87.0	86.0	94.4
60.0	72.9	79.3	84.0	86.8	87.8	87.6	85.9	93.9
65.0	72.5	79.0	84.4	86.4	87.5	87.2	85.8	93.6
70.0	72.4	78.4	83.9	85.4	86.8	86.7	85.4	93.0
75.0	71.8	78.0	83.6	85.3	86.1	86.4	85.2	92.6
80.0	71.8	77.6	83.1	84.9	85.7	85.9	85.3	92.3
85.0	71.3	76.9	82.3	84.1	85.6	85.4	85.0	91.9
90.0	70.5	76.9	81.9	84.1	85.7	86.1	85.1	92.0
95.0	70.7	76.4	81.4	83.5	85.1	85.4	84.8	91.5
100.0	70.1	75.9	81.4	83.1	84.9	85.6	84.9	91.4
105.0	69.6	74.8	80.9	82.8	84.9	85.6	85.0	91.3
110.0	68.3	74.7	80.5	82.3	84.8	85.6	84.6	91.1
115.0	68.5	74.1	79.4	81.8	84.1	85.6	84.9	90.8

MODEL THRUST = 15.598 FULL SCALE THRUST = 20000.000

L.	PND.	OASPL	10.0	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	10.0	1750.4	3490.8	6981.7	13963.3
			27.9	55.9	111.7	223.4	446.8	879.7					
5795.6	70.71 (69.7)	72.7	59.32	65.39	68.39	66.41	63.78	57.70	44.79	37.25	14.37	-27.17	-97.23
4385.7	75.01 (73.7)	75.7	60.61	67.90	71.23	69.79	67.16	61.87	55.58	45.37	27.32	-4.84	-58.58
3549.3	78.21 (76.5)	77.5	61.00	69.42	72.57	72.16	69.99	64.58	59.33	50.49	35.31	8.71	-35.36
3088.0	81.11 (79.2)	79.2	61.34	68.39	73.24	74.32	72.64	67.69	62.51	54.58	41.29	14.34	-19.37
2615.2	82.81 (80.6)	79.9	60.58	68.20	73.04	74.31	74.01	69.90	65.12	57.82	45.85	25.46	-7.60
2333.4	84.01 (81.4)	80.3	60.49	67.59	72.87	74.46	74.79	71.64	67.31	60.47	49.46	30.95	1.95
2171.3	84.81 (81.8)	80.4	59.86	66.99	72.22	74.50	74.95	72.88	69.75	62.26	51.98	34.88	7.33
1958.1	85.31 (82.0)	80.3	60.14	66.49	71.78	73.85	74.48	73.09	69.84	63.62	53.91	37.89	12.23
1831.2	85.71 (82.3)	80.6	59.57	66.45	71.50	73.68	74.72	73.50	70.35	64.34	55.89	39.89	15.20
1732.1	85.91 (82.4)	80.4	59.76	66.12	71.68	73.54	74.44	73.70	70.84	64.49	56.05	41.53	18.49
1645.1	86.21 (82.5)	80.5	59.75	66.21	71.45	73.54	74.48	73.74	71.21	65.48	56.81	42.80	20.65
1586.3	86.11 (82.3)	80.3	59.96	65.44	71.42	73.29	74.12	73.61	71.21	65.58	57.10	43.49	22.02
1552.9	86.01 (82.2)	80.1	59.86	65.78	71.36	73.06	73.66	73.52	71.26	65.70	57.37	44.05	23.08
1523.1	86.01 (82.0)	79.9	59.83	65.59	71.03	72.77	73.48	73.24	71.62	66.11	57.89	44.76	24.13
1505.7	85.91 (81.9)	79.7	59.35	64.49	70.37	72.14	73.44	73.35	71.37	65.90	57.73	44.72	24.30
1500.0	86.31 (82.0)	79.8	58.64	65.07	70.04	72.14	73.50	73.54	71.56	66.03	57.48	44.91	24.55
1505.7	85.81 (81.9)	79.3	58.73	64.52	70.01	71.55	72.49	72.46	71.17	65.69	57.52	44.51	24.09
1525.1	85.71 (81.7)	79.0	58.11	63.44	69.35	70.49	72.70	72.46	71.17	65.67	57.44	44.31	23.54
1552.9	85.11 (81.0)	78.7	57.38	62.45	64.64	70.43	72.40	72.71	71.05	65.50	57.17	43.45	22.48
1596.3	84.61 (80.8)	78.2	55.90	62.24	64.07	69.45	72.16	72.45	70.43	64.80	56.33	42.71	21.74
1655.1	84.11 (80.0)	77.6	55.75	61.71	63.86	69.00	71.08	72.15	70.26	64.54	55.86	41.86	19.70

RUN NUMBER	= 219.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.2500
PRIMARY TEMPERATURE (H)	= 523.000
SECONDARY TEMPERATURE (H)	= 524.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 2.007
VELOCITY RATIO	= .347
PRIMARY VELOCITY (FT/SEC)	= 891.874
MASS FLOW RATIO	= .595
PRIMARY MASS FLOW (LB/SEC)	= .209
THRUST (LBS)	= 6.961
ENVIRONMENTAL TEMPERATURE (H)	= 525.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 56.000
CALIBRATION FACTOR (INV TO DY/SD CH)	= .007
INSTRUMENTATION NOISE FLOOR (DB)	= 66.005

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	7.68464E-02	118.9	THRUST	POWER LEVEL (DB)
500	5.57379E-04	97.5	10000	150.4
1000	3.05724E-03	104.9	20000	153.4
2000	1.33618E-02	111.3	40000	156.5
4000	1.99519E-02	113.0	80000	159.5
8000	1.96544E-02	112.9		
16000	1.23752E-02	110.9		
31500	7.88451E-03	109.0		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
							ALL
15.0	76.5	84.9	90.7	87.6	85.1	79.6	76.7
20.0	75.4	84.0	90.3	89.9	86.4	81.3	77.9
25.0	74.1	82.6	89.3	89.9	87.2	82.5	79.1
30.0	72.5	80.5	87.2	89.2	88.1	84.0	80.6
35.0	70.4	78.5	85.6	88.1	87.5	84.3	81.0
40.0	69.9	76.2	83.5	85.1	86.7	84.1	81.2
45.0	68.4	75.6	82.2	85.6	86.9	85.2	82.6
50.0	67.5	74.1	80.8	85.4	85.6	84.3	82.1
55.0	66.6	73.0	80.0	83.2	84.6	83.3	81.4
60.0	66.6	72.6	79.4	82.4	83.5	82.4	80.8
65.0	66.0	72.4	78.5	81.6	83.1	82.1	80.3
70.0	65.8	72.1	77.9	81.1	82.3	81.3	79.6
75.0	65.8	71.5	77.4	80.5	81.8	80.9	79.6
80.0	63.9	70.8	76.7	79.4	81.0	80.2	78.8
85.0	65.5	70.8	76.5	79.4	80.6	79.6	78.3
90.0	64.6	70.1	75.8	78.7	79.8	78.7	77.6
95.0	64.8	69.9	75.3	77.9	79.5	78.4	77.5
100.0	64.1	69.3	74.9	77.5	78.6	77.5	77.0
105.0	63.3	69.3	74.3	76.6	78.3	77.4	76.9
110.0	62.8	68.9	73.6	76.4	77.7	76.6	76.3
115.0	62.0	68.3	73.3	76.4	77.4	76.2	75.9

MODEL THRUST = 6.961 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	9.3	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	9.3	18.7	37.3	74.6	149.2	298.5	547.7	1175.3	2332.0	4664.0	9327.9
8795.6	69.6	68.2	74.3	56.39	64.73	70.59	69.34	64.53	58.13	52.83	43.93	27.94	-1.71	-53.89					
8585.7	74.0	72.2	76.9	57.68	66.29	72.60	72.07	68.40	62.54	57.43	49.96	37.13	13.97	-26.25					
8549.3	77.2	75.0	78.5	58.27	66.74	73.42	73.93	71.12	65.84	60.97	54.36	43.60	26.08	-9.04					
8080.0	79.8	77.2	79.4	58.14	66.13	72.79	74.73	73.47	68.95	64.31	58.26	44.53	31.74	3.28					
8615.2	81.1	78.2	79.7	57.19	65.20	72.43	74.46	74.11	70.47	66.13	60.46	51.60	36.59	11.38					
8333.4	81.9	78.6	79.5	56.65	64.62	71.25	73.79	74.29	71.34	67.48	62.10	53.87	40.14	17.34					
8121.3	83.9	80.3	80.4	57.02	64.22	70.84	74.14	75.33	73.34	69.84	64.70	56.95	44.19	23.14					
8054.1	83.9	80.0	80.0	56.85	63.44	70.12	73.67	74.77	73.14	70.14	65.15	57.76	45.76	24.14					
8031.2	83.6	79.6	79.6	56.48	62.45	69.96	73.00	74.33	72.74	70.09	65.22	54.12	44.70	24.16					
7732.1	83.5	79.3	79.3	56.96	62.46	69.74	72.73	73.72	72.39	70.08	65.32	54.44	47.47	24.78					
7655.1	83.5	79.2	79.2	56.74	63.12	69.22	72.33	73.72	72.44	69.99	65.31	55.60	47.99	24.94					
7546.1	83.2	78.4	78.4	56.41	63.14	68.44	72.11	73.24	71.47	69.67	65.04	54.46	48.12	25.58					
7592.9	83.2	78.7	78.7	57.15	62.44	69.75	71.78	73.05	71.43	69.44	65.30	54.82	49.68	26.50					
7523.1	82.6	78.1	78.1	55.38	62.29	68.14	71.26	72.39	71.31	69.33	64.77	54.36	48.36	26.23					
7505.7	82.7	77.7	77.7	57.10	62.39	68.08	71.08	72.07	70.44	68.44	64.35	57.94	44.05	32.27					
7500.0	81.4	76.8	77.1	56.27	61.73	67.43	70.10	71.26	69.96	67.26	63.74	57.37	47.48	31.75					
7505.7	81.1	76.5	76.7	56.42	61.44	66.90	69.67	70.69	69.67	67.69	63.55	57.14	47.24	31.44					
7523.1	80.4	75.7	75.0	55.38	60.73	66.72	69.02	69.02	67.44	65.44	62.63	56.51	46.51	30.54					
7552.9	80.0	75.3	75.4	54.60	60.47	65.56	67.42	69.48	68.33	67.21	62.63	56.15	46.01	29.43					
7546.3	79.0	74.4	74.6	53.93	59.99	64.46	67.42	68.45	67.34	64.33	61.71	55.13	44.70	24.24					
7655.1	78.3	73.7	74.0	53.61	54.07	64.23	67.11	68.02	66.42	65.64	60.97	54.26	43.65	24.61					

RUN NUMBER	220.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INCH)	2.000
PRIMARY TEMPERATURE (IN)	523.000
SECONDARY TEMPERATURE (IN)	522.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	2.007
VELOCITY RATIO	.649
PRIMARY VELOCITY (FT/SEC)	891.138
MASS FLOW RATIO	1.337
PRIMARY MASS FLOW (LB/SEC)	.208
THRUST (LBS)	11.132
ENVIRONMENTAL TEMPERATURE (IN)	924.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	80.000
CALIBRATION FACTOR (MV TO DY/5% C)	.009
INSTRUMENTATION NOISE FLOOR (DB)	49.567

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.16794E-01	120.7	THRUST	POWER LEVEL (DB)
500	1.3930E-03	101.4	10000	150.2
1000	6.36728E-03	108.0	20000	152.2
2000	2.20292E-02	113.4	40000	156.2
4000	3.13157E-02	115.0	80000	159.2
8000	7.84036E-02	116.5		
16000	1.64324E-02	112.3		
31500	1.03350E-02	110.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	79.8	88.4	91.3	89.0	85.7	80.5	77.8	95.3
20.0	79.3	86.5	91.0	91.0	88.0	83.1	79.8	96.5
25.0	78.4	85.8	91.6	92.4	90.0	85.2	81.8	97.1
30.0	76.6	84.1	90.0	92.0	90.4	86.3	82.6	96.6
35.0	74.7	81.8	88.3	90.3	89.0	86.7	83.4	95.5
40.0	73.1	79.9	86.1	88.5	88.7	86.4	83.6	94.2
45.0	71.4	78.3	84.6	87.1	87.0	86.1	83.6	93.3
50.0	71.0	77.5	83.3	86.1	87.1	85.4	83.2	92.5
55.0	70.4	77.1	82.4	85.0	85.0	84.6	82.6	91.5
60.0	70.4	76.2	81.0	84.4	85.2	83.8	81.8	90.8
65.0	70.1	75.4	80.9	83.2	83.9	82.8	81.1	89.7
70.0	70.0	75.0	80.0	82.0	82.0	81.7	80.3	88.8
75.0	69.6	75.1	79.4	81.6	82.2	81.0	79.9	88.2
80.0	69.9	75.1	79.6	81.5	82.3	81.0	79.5	88.2
85.0	69.0	75.1	79.2	81.0	81.0	80.6	79.4	87.0
90.0	69.1	74.5	78.8	80.7	81.7	80.3	78.8	87.5
95.0	68.8	74.1	78.3	79.6	80.7	79.4	78.1	86.6
100.0	68.3	73.4	77.5	79.0	79.0	79.5	77.6	85.9
105.0	67.5	72.6	76.7	78.1	79.1	77.9	77.0	85.2
110.0	66.8	72.7	76.2	77.9	79.4	77.4	77.0	85.1
115.0	66.8	71.5	76.0	77.7	79.0	77.6	76.9	84.8

MODEL THRUST = 11.132 FULL SCALE THRUST = 20000.000

L.	PND.	OASPL	OCTAVE		BAND		SOUND		PRESSURE		LEVELS			
			11.0	23.6	47.2	94.4	100.7	377.5	743.1	1406.3	2949.0	5400.0	11795.0	
705.6	69.3 (68.2)	72.9	57.64	64.24	69.11	67.55	62.86	56.50	50.49	39.60	19.96	-16.21	-78.36	
305.7	74.9 (73.4)	76.5	59.57	66.73	72.04	71.94	67.73	61.67	56.18	47.25	31.61	3.51	-44.25	
849.3	79.1 (77.3)	78.9	60.48	67.86	73.69	74.39	71.78	66.15	60.72	52.92	39.69	14.38	-22.05	
600.0	81.3 (80.2)	79.0	60.13	67.67	73.54	75.44	73.63	68.09	63.48	56.42	44.77	24.61	-9.01	
618.2	82.5 (80.0)	80.0	59.47	66.54	72.86	74.98	70.37	65.63	60.84	59.31	48.77	30.90	1.11	
353.6	73.0 (70.1)	74.6	58.82	65.63	71.83	74.15	72.17	71.35	67.26	61.10	51.37	35.02	8.20	
121.3	83.6 (80.4)	79.6	57.94	64.92	71.12	73.53	74.19	71.93	66.23	62.36	53.25	32.11	13.46	
656.1	83.9 (80.5)	79.5	58.32	64.78	70.59	73.12	74.19	72.06	68.76	63.12	54.47	40.27	17.28	
831.2	83.0 (80.2)	79.1	58.45	64.91	70.21	72.76	73.54	71.85	68.86	63.18	55.10	41.63	19.93	
732.1	83.6 (80.6)	78.9	58.71	64.55	70.12	72.71	73.31	71.56	68.57	63.23	55.24	42.33	21.65	
695.1	82.1 (78.3)	76.3	58.86	64.15	69.60	71.55	72.47	70.33	66.32	63.08	55.31	42.64	22.95	
594.3	82.5 (79.6)	77.6	59.06	64.60	69.00	71.00	71.74	70.16	67.47	62.81	55.21	43.07	23.78	
552.9	82.3 (78.3)	77.4	58.92	64.54	68.71	70.78	71.33	69.76	67.79	62.70	55.22	43.33	24.48	
523.1	82.1 (78.4)	77.5	59.34	64.52	68.03	70.46	71.54	69.94	67.59	62.53	55.14	43.42	24.87	
505.7	82.2 (79.1)	77.2	58.52	64.89	68.73	70.93	71.18	69.70	67.56	62.53	55.19	43.57	25.20	
300.0	81.0 (77.8)	76.9	58.69	64.05	68.41	70.21	71.13	69.37	67.02	61.99	54.67	43.09	24.70	
505.7	80.9 (76.9)	76.1	58.39	63.62	67.83	69.11	70.13	68.44	65.28	61.25	53.91	42.09	23.92	
523.1	80.2 (75.9)	75.2	57.71	62.85	66.47	68.34	69.18	67.47	65.40	60.43	53.04	41.33	22.78	
552.9	79.1 (75.0)	74.3	56.78	61.85	66.97	67.15	68.73	66.82	64.85	59.75	52.27	40.38	21.53	
566.1	78.6 (74.7)	74.0	55.43	61.71	65.24	66.64	67.31	66.44	64.57	59.41	51.81	39.67	20.38	
695.1	76.1 (74.1)	73.4	55.52	60.27	64.71	66.43	67.50	65.82	64.11	58.67	51.10	38.63	19.74	

RUN NUMBER	221.000
AIRIAL POSITION OF PRIMARY WHT. SECONDARY (T.S.)	4.400
PRIMARY TEMPERATURE (R)	527.000
SECONDARY TEMPERATURE (R)	523.000
PRIMARY PRESSURE (R)	1.000
AREA RATIO	2.007
VELOCITY RATIO	.996
PRIMARY VELOCITY (FT/SEC)	895.262
MASS FLOW RATIO	2.768
PRIMARY MASS FLOW (LB/SEC)	.208
THRUST (LBS)	21.879
ENVIRONMENTAL TEMPERATURE (R)	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	80.000
CALIBRATION FACTOR (LV TO UV/50 CM)	.016
INSTRUMENTATION NOISE FLOOR (DB)	53.552

SUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.61926E-01	126.4	THRUST	POWER LEVEL (DB)
500	3.97340E-03	106.0	10000	153.2
1000	1.95762E-02	112.9	20000	156.3
2000	6.33929E-02	118.0	40000	159.3
4000	1.09428E-01	120.4	80000	162.3
8000	1.25555E-01	121.4		
16000	8.81335E-02	114.5		
31500	5.14471E-02	117.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	83.7	89.9	78.0	93.4	92.3	89.4	85.2	98.0
22.5	82.9	90.0	90.5	95.1	94.8	89.4	85.9	100.4
30.0	81.7	89.0	95.1	98.7	95.4	90.8	88.2	101.5
37.5	81.0	88.2	94.1	98.0	96.4	92.9	89.2	101.9
45.0	79.8	87.0	92.8	95.9	96.3	94.1	90.8	101.6
52.5	77.8	85.4	91.4	94.6	95.1	93.7	91.2	100.6
60.0	76.0	84.0	89.9	92.8	93.9	92.7	90.4	99.3
67.5	75.8	82.8	89.1	91.9	93.1	92.3	90.3	98.7
75.0	75.4	82.5	88.1	90.7	92.0	91.1	89.0	97.6
82.5	75.2	81.9	87.7	90.2	91.2	90.5	88.4	96.9
90.0	75.1	81.7	86.7	89.2	90.5	89.5	87.4	96.1
97.5	75.0	81.3	86.4	88.5	89.4	88.7	86.7	95.4
105.0	74.9	81.3	86.2	88.1	89.3	88.8	86.8	95.2
112.5	74.6	81.5	85.9	87.8	89.0	88.1	86.3	94.8
120.0	74.5	81.3	85.6	87.3	88.5	88.0	86.2	94.5
127.5	74.1	80.9	85.7	87.0	88.9	87.9	85.9	94.4
135.0	73.8	80.5	85.3	86.8	88.6	87.8	85.8	94.3
142.5	73.1	80.4	85.1	86.2	87.9	87.2	85.2	93.7
150.0	73.2	80.0	84.8	86.2	87.9	87.1	85.3	93.6
157.5	72.5	78.6	83.2	85.1	87.7	86.3	84.5	92.8
165.0	72.1	77.6	82.5	84.3	86.8	86.0	84.9	92.5

MODEL THRUST = 21.879 FULL SCALE THRUST = 20000.000

C.	PROB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	16.5	33.1	66.2	132.3	264.6	529.2	1041.9	2043.7	4134.4	8268.8	16537.6
8745.4	72.81	72.01	71.9	58.59	64.74	52.76	67.94	64.08	61.15	51.91	37.36	10.83	-36.70	-115.29				
4385.7	78.31	77.21	77.2	60.26	67.26	71.78	72.16	70.45	68.78	57.06	45.31	24.51	-12.19	-72.39				
3549.3	82.31	80.91	80.1	60.89	68.18	76.21	75.61	73.87	68.04	67.33	52.75	34.04	-4.57	-44.72				
3080.0	85.11	83.51	81.9	61.64	68.86	76.66	77.15	76.68	71.84	65.55	55.56	41.38	15.33	-26.79				
2615.2	86.91	84.91	82.8	61.66	68.74	76.61	77.61	77.59	74.51	64.89	60.64	47.06	23.97	-13.14				
2333.6	87.41	85.01	82.8	60.61	64.24	74.10	77.23	77.67	75.27	70.67	63.02	50.55	29.62	-3.82				
2121.3	87.31	84.61	82.3	59.67	67.59	73.50	76.36	77.40	75.15	71.00	63.77	52.16	32.86	2.14				
1958.1	87.71	84.61	82.4	60.15	67.59	73.37	76.11	77.69	75.57	71.62	64.41	53.97	35.92	7.38				
1831.2	87.31	84.31	81.9	60.27	67.61	72.95	75.46	76.58	75.04	71.32	64.67	54.24	37.17	10.29				
1732.1	87.31	84.21	81.8	60.64	67.27	73.07	75.49	76.24	74.90	71.35	64.90	54.87	38.56	12.97				
1654.1	86.81	83.71	81.6	60.91	67.44	72.51	74.95	75.95	74.95	70.89	64.59	54.87	39.15	14.56				
1596.3	86.51	83.31	81.1	61.11	67.17	72.44	74.67	75.63	73.91	70.51	64.33	54.85	39.54	15.77				
1552.9	86.81	83.51	81.1	61.22	67.67	72.48	74.32	75.30	74.25	70.92	64.42	55.52	40.59	17.33				
1523.1	86.51	83.21	80.9	61.14	69.13	72.41	74.21	75.23	73.77	70.64	64.60	55.42	40.72	17.85				
1505.7	86.41	83.01	80.7	61.11	67.44	72.41	73.40	74.46	73.76	70.71	64.71	55.59	41.02	18.39				
1500.0	86.31	83.01	80.7	60.74	67.53	72.29	73.59	75.24	73.72	70.17	64.19	55.09	40.54	18.00				
1505.2	86.21	82.81	80.5	61.43	67.13	71.91	73.15	74.36	73.61	70.30	64.30	55.19	40.62	17.94				
1523.1	85.41	82.01	77.8	57.00	64.42	71.40	72.67	74.15	72.44	64.57	63.53	54.35	34.64	14.74				
1552.9	85.11	81.91	77.5	59.50	64.31	71.79	72.64	73.91	72.41	64.42	63.32	54.02	34.09	14.44				
1596.3	84.31	80.71	77.5	50.57	64.26	64.13	71.19	73.52	71.55	64.33	62.15	52.47	37.80	13.54				
1655.1	83.61	80.21	77.7	57.92	63.16	61.72	71.11	72.10	71.04	64.16	62.06	52.72	35.60	12.02				

RUN NUMBER	223.00 (745.00)
AIRAL POSITION (OF PRIMARY WPT. SECONDARY (INS.))	9.500
PRIMARY TEMPERATURE (H)	526.000
SECONDARY TEMPERATURE (H)	523.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	0.550
VELOCITY RATIO	0.365
PRIMARY VELOCITY (FT/SEC)	894.292
MASS FLOW RATIO	1.597
PRIMARY MASS FLOW (LB/SEC)	209
THRUST (LBS)	6.978
ENVIRONMENTAL TEMPERATURE (H)	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (P.W. CNT)	56.000
CALIBRATION FACTOR (MV TO DY/SH C-1)	0.006
INSTRUMENTATION NOISE FLOOR (DB)	45.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.59886E-02	117.5	THRUST	POWER LEVEL (DB)
500	9.82629E-04	99.9	10000	147.9
1000	4.24887E-03	106.3	20000	151.0
2000	1.29678E-02	111.1	40000	154.0
4000	1.45845E-02	111.6	80000	157.0
8000	1.17849E-02	110.7		
16000	6.61634E-03	108.2		
31500	4.79957E-03	106.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	79.5	86.2	89.8	86.3	78.3	71.7	73.4	93.0
20.0	78.4	85.8	89.0	88.1	81.4	73.8	73.9	91.6
25.0	77.1	84.3	89.5	88.7	84.1	77.4	75.1	93.5
30.0	75.8	82.3	87.7	86.0	85.5	79.9	78.6	92.9
35.0	72.9	79.7	85.5	86.4	85.3	81.1	77.8	91.6
40.0	71.1	77.5	83.6	85.1	84.9	81.5	78.7	90.6
45.0	70.2	76.0	82.0	84.2	84.3	81.9	79.6	89.9
50.0	69.4	75.1	80.9	83.1	83.5	81.3	79.3	89.1
55.0	69.0	74.7	79.9	82.2	82.9	81.0	79.4	88.5
60.0	68.6	74.7	79.3	81.6	82.3	80.4	78.9	88.0
65.0	67.8	73.8	78.1	80.5	80.9	79.3	78.0	86.8
70.0	67.8	72.7	77.2	79.4	80.0	78.5	77.5	85.9
75.0	67.3	72.8	76.8	79.4	79.6	78.3	77.3	85.7
80.0	67.5	71.9	76.5	78.6	79.4	78.1	77.2	85.3
85.0	67.1	71.5	76.4	78.5	78.8	77.3	76.5	84.9
90.0	66.1	71.3	75.1	77.4	77.7	76.5	76.1	84.0
95.0	65.8	71.2	74.7	76.2	77.3	76.1	75.9	83.4
100.0	65.3	70.5	74.4	76.4	76.9	75.9	75.6	83.3
105.0	65.4	70.5	74.3	76.1	77.0	75.8	75.7	83.2
110.0	64.6	69.7	74.0	75.9	76.7	75.6	75.8	83.0
115.0	64.5	69.4	73.9	75.5	76.7	75.6	75.8	82.8

MODEL THRUST = 0.978 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 10.6	BAND 21.2	SOUND 42.4	PRESSURE 84.7	LEVELS 169.5	339.0	647.4	1334.8	2648.4	5296.8	10593.6
8795.4	64.4 (63.0)	71.7	59.27	64.92	68.56	64.91	56.30	48.81	47.70	37.81	19.90	-13.14	-70.58
4386.7	69.4 (67.8)	74.7	59.55	67.32	71.15	69.13	62.14	53.77	51.68	43.47	29.19	3.45	-40.74
3949.3	73.5 (71.7)	76.5	60.18	67.34	72.55	71.61	66.82	59.42	55.38	48.16	36.03	14.63	-21.71
3800.8	76.4 (74.2)	77.2	60.28	66.75	72.20	72.41	64.74	63.52	59.82	52.26	41.54	22.99	-8.19
2615.2	77.8 (75.2)	77.1	59.60	65.39	71.17	72.03	70.70	66.07	61.51	55.40	45.68	29.12	1.55
2333.6	78.9 (75.9)	77.1	57.80	64.17	70.23	71.73	71.36	67.57	63.62	57.84	48.84	33.74	6.82
2121.3	80.3 (77.0)	77.2	57.67	63.47	69.45	71.45	71.59	69.77	65.47	59.95	51.49	37.49	14.57
1950.1	80.6 (77.1)	77.1	57.56	63.79	69.07	71.28	71.56	69.97	64.05	60.72	52.68	39.53	18.14
1831.2	81.0 (77.3)	77.2	57.76	63.51	68.69	70.92	71.50	69.31	66.77	61.60	53.89	41.39	21.19
1732.1	81.1 (77.2)	77.1	57.84	63.94	68.60	70.78	71.38	69.22	64.88	61.82	54.36	42.38	23.12
1655.1	80.4 (76.5)	76.3	57.49	67.43	67.79	70.09	70.44	68.50	64.34	61.37	54.12	42.54	23.99
1566.3	80.1 (76.0)	75.8	57.81	62.67	67.21	69.32	69.81	67.99	66.22	61.32	54.22	42.94	24.95
1552.9	80.2 (76.0)	75.8	57.47	63.95	67.03	69.56	69.63	68.06	66.31	61.46	54.47	43.42	25.83
1523.1	80.1 (75.9)	75.6	57.87	62.23	66.92	69.97	69.61	68.04	66.37	61.56	54.64	43.75	26.44
1505.7	79.5 (75.2)	75.3	57.62	62.03	66.92	68.92	69.18	67.34	65.82	61.03	54.10	43.35	26.21
1508.0	78.7 (74.3)	74.6	56.63	61.93	65.63	67.91	68.12	66.54	65.44	60.65	53.79	43.02	25.93
1505.7	78.3 (73.9)	73.9	56.32	61.44	65.19	67.68	67.63	66.15	65.18	60.39	53.51	42.71	25.57
1523.1	78.1 (73.6)	73.6	55.64	60.37	64.78	66.72	67.19	65.86	64.99	60.18	53.26	42.37	25.06
1552.9	77.8 (73.3)	73.3	55.62	60.70	64.49	66.26	67.07	65.56	64.72	59.88	52.89	41.83	24.25
1546.3	77.4 (72.9)	72.8	54.61	60.54	63.43	65.83	66.58	65.12	64.53	59.63	52.52	41.25	23.25
1555.1	76.9 (72.5)	72.4	54.13	59.34	63.55	64.15	64.21	64.79	64.17	59.20	51.94	40.36	21.62

WIND NUMBER	=	225.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	=	9.000
PRIMARY TEMPERATURE (K)	=	527.000
SECONDARY TEMPERATURE (K)	=	510.000
PRIMARY PRESSURE RATIO	=	1.000
AREA RATIO	=	4.850
VELOCITY RATIO	=	0.991
PRIMARY VELOCITY (FT/SEC)	=	895.242
MASS FLOW RATIO	=	6.093
PRIMARY MASS FLOW (LBS/SEC)	=	6.203
THRUST (LBS)	=	39.805
ENVIRONMENTAL TEMPERATURE (K)	=	921.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.570
ENVIRONMENTAL HUMIDITY (PER CENT)	=	50.000
CALIBRATION FACTOR (MV TO DY/50 CH)	=	0.014
INSTRUMENTATION NOISE FLOOR (DB)	=	51.552

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	6.88417E-01	128.4	THRUST	POWER LEVEL (DB)
500	1.83939E-02	112.6	10000	152.4
1000	5.65939E-02	117.5	20000	155.4
2000	1.45249E-01	121.7	40000	158.4
4000	1.73544E-01	122.4	80000	161.4
8000	1.50039E-01	121.9		
16000	9.27706E-02	119.7		
31500	5.97262E-02	117.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.4	94.8	95.6	92.3	87.3	84.6	80.0	100.4
20.0	91.4	94.9	96.7	93.1	89.5	85.4	81.4	101.0
25.0	89.9	94.4	97.1	94.6	90.7	86.1	82.6	101.3
30.0	88.4	93.8	97.2	95.7	92.2	87.9	84.1	101.6
35.0	87.0	92.3	96.6	96.4	93.7	89.4	85.6	101.7
40.0	84.5	90.6	95.5	96.2	94.7	90.3	86.2	101.3
45.0	83.5	89.6	94.0	95.6	93.0	88.8	85.0	101.0
50.0	82.1	88.6	93.2	94.8	91.7	87.9	84.7	100.5
55.0	81.2	87.3	92.2	94.1	90.8	87.1	84.1	99.9
60.0	80.6	86.7	91.7	93.5	89.6	86.3	83.5	99.4
65.0	80.0	85.8	91.1	92.9	88.8	85.7	83.0	98.7
70.0	79.3	85.3	90.4	92.4	88.2	85.4	82.4	98.2
75.0	79.8	84.3	89.8	92.1	87.9	85.0	82.2	97.8
80.0	79.0	84.2	89.5	91.3	87.2	84.8	82.5	97.3
85.0	78.5	83.9	89.1	91.0	86.6	84.1	81.7	97.1
90.0	78.3	83.2	88.5	90.4	86.0	83.4	81.4	96.8
95.0	77.9	82.4	88.1	90.3	85.9	83.3	81.3	96.6
100.0	77.7	82.2	87.9	89.9	85.4	82.9	81.4	96.5
105.0	76.5	82.1	87.8	90.1	85.7	83.4	81.4	96.4
110.0	76.4	81.4	87.7	89.6	85.2	83.0	81.3	96.4
115.0	75.4	80.5	87.4	89.5	85.1	82.9	80.0	96.2

MODEL THRUST = 39.805 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	22.3	44.6	89.2	178.4	356.9	713.8	1405.3	2810.6	5576.5	11153.1	22306.1
5795.6	69.4 (69.0)	72.4	64.69	67.03	67.73	64.06	57.82	52.03	40.17	21.16	-13.09	-72.75	-167.72
4385.7	73.4 (73.2)	75.4	66.15	69.00	71.29	67.37	62.03	56.45	46.93	31.61	5.16	-40.72	-113.31
3549.2	77.4 (76.6)	77.5	66.44	70.93	73.55	70.93	66.18	59.70	51.71	38.91	19.77	-20.94	-80.26
3000.0	80.4 (79.4)	79.3	66.44	71.77	75.16	73.41	69.30	63.36	55.81	44.53	25.35	-6.93	-57.58
2615.2	82.8 (81.6)	80.5	66.26	71.46	75.72	73.32	72.07	66.42	59.39	49.17	32.07	3.50	-41.00
2333.6	84.5 (83.2)	81.1	64.66	70.77	75.65	76.15	74.21	68.55	61.56	52.11	36.53	10.71	-29.32
2121.3	85.9 (84.3)	81.5	64.49	70.62	74.95	76.41	75.42	71.03	64.65	55.80	47.36	17.61	-19.05
1954.1	86.5 (84.8)	81.6	63.79	70.29	74.92	76.34	74.79	71.09	66.31	57.90	44.34	22.20	-11.86
1831.2	86.9 (84.9)	81.6	63.51	69.59	74.68	76.25	75.76	72.58	67.57	59.51	46.64	25.74	-6.32
1732.1	87.0 (84.9)	81.6	63.44	69.44	74.45	76.15	75.65	72.65	67.72	59.93	47.59	27.66	-2.83
1655.1	86.9 (84.7)	81.3	63.24	69.04	74.21	75.44	75.51	72.54	67.74	60.17	49.24	29.06	-2.20
1596.3	86.4 (84.5)	81.2	62.84	68.42	73.46	75.78	75.27	72.53	67.99	60.58	48.97	30.37	2.04
1552.9	86.6 (84.4)	81.0	63.52	68.43	73.42	75.65	75.16	72.48	67.74	60.45	49.07	30.89	3.25
1523.1	86.4 (84.1)	80.7	62.47	68.13	73.36	75.07	74.62	72.42	67.21	61.01	49.79	31.90	4.73
1505.7	86.4 (84.0)	80.6	62.49	67.91	73.07	74.96	74.75	72.31	67.00	60.84	49.72	32.00	5.11
1500.0	86.2 (83.8)	80.2	62.36	67.27	72.51	74.33	74.44	72.35	67.34	61.20	50.12	32.45	5.65
1504.7	86.1 (83.6)	80.0	61.98	66.19	72.07	74.13	74.63	72.27	67.20	61.06	49.93	32.70	5.31
1523.1	85.7 (83.3)	79.7	61.52	66.13	71.77	73.69	73.97	72.17	67.54	61.34	50.13	32.24	5.07
1527.9	85.7 (83.2)	79.6	60.20	65.79	71.47	73.74	73.93	72.20	67.32	61.03	49.66	31.47	3.83
1546.3	85.3 (82.7)	79.1	59.46	64.49	71.13	72.92	73.18	72.06	67.45	61.34	49.43	30.82	2.49
1654.1	84.7 (82.2)	78.6	58.55	63.66	70.54	72.53	72.76	71.65	67.76	60.21	49.29	29.11	-1.16

WIND NUMBER	
AXIAL POSITION OF PRIMARY NOISE SECONDARY (INCH)	220.000
PRIMARY TEMPERATURE (IN)	9.000
SECONDARY TEMPERATURE (IN)	933.000
PRIMARY PRESSURE RATIO	933.000
AREA RATIO	1.400
VELOCITY RATIO	9.446
PRIMARY VELOCITY (FT/SEC)	1.147
MASS FLOW RATIO	900.325
PRIMARY MASS FLOW (LB/SEC)	7.000
THRUST (LBS)	203
ENVIRONMENTAL TEMPERATURE (IN)	51.455
ENVIRONMENTAL PRESSURE (IN.MG)	521.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.570
CALIBRATION FACTOR (MV TO GV/50 C.)	58.000
INSTRUMENTATION NOISE FLOOR (DB)	0.020
	58.584

NOISE POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.20718E+00	133.4	THRUST	POWER LEVEL (DB)
500	4.82067E-02	116.8	10030	156.3
1000	1.53852E-01	121.9	20000	159.3
2000	4.06356E-01	126.1	40000	162.3
4000	5.34307E-01	127.3	80000	165.4
8000	5.06891E-01	127.0		
16000	3.46674E-01	125.4		
31500	2.10877E-01	123.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	8000	16000	31500	ALL
15.0	97.1	99.6	100.1	98.1	91.7	90.1	85.7	105.3
20.0	96.4	100.3	101.4	99.0	94.9	90.6	86.8	106.2
25.0	94.7	99.6	102.1	100.0	96.2	92.1	88.1	106.5
30.0	93.2	98.2	102.0	101.0	98.3	93.8	90.1	106.8
35.0	89.7	96.9	101.6	100.9	99.0	95.0	91.1	106.6
40.0	89.3	95.0	100.5	101.6	98.9	94.1	90.7	106.5
45.0	87.0	93.4	98.8	100.6	100.5	97.6	94.2	106.2
50.0	85.6	92.6	97.8	99.7	100.1	98.3	95.2	105.9
55.0	84.7	90.9	96.5	98.9	98.9	97.4	94.7	104.8
60.0	83.9	89.9	95.7	98.1	98.6	96.8	94.0	104.1
65.0	82.7	89.5	94.8	97.2	97.9	96.3	93.6	103.4
70.0	83.0	88.9	94.4	96.9	97.4	95.8	93.5	103.1
75.0	82.5	88.0	93.5	96.4	96.7	95.1	92.9	102.4
80.0	82.2	87.8	93.2	96.2	96.5	95.2	92.3	102.3
85.0	82.1	87.1	92.8	95.7	96.1	94.9	92.2	101.9
90.0	81.2	86.6	92.3	95.1	95.9	94.9	92.7	101.7
95.0	80.8	85.6	91.7	94.8	96.0	95.4	94.1	101.7
100.0	80.7	85.4	91.6	95.2	96.0	95.4	94.5	101.0
105.0	80.2	85.2	91.0	94.5	96.0	95.7	94.5	101.4
110.0	79.7	84.7	91.4	94.6	96.3	96.1	95.0	102.1
115.0	78.9	84.0	90.9	94.5	96.1	96.3	95.3	102.1

MODEL THRUST = 51.455 FULL SCALE THRUST = 20000.000

L.	PRDS.	DASPL	25.4	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	1547.4	3144.5	6340.3	12440.4	25141.3
5795.4	74.7 (74.5)	76.0	68.30	70.77	71.04	68.54	60.73	55.43	42.51	21.21	-16.89	-42.37	-144.80
6385.7	79.3 (78.9)	79.4	69.99	73.85	74.81	72.05	66.06	59.80	49.61	32.74	3.20	-47.04	-125.32
3549.3	82.7 (82.1)	81.5	70.18	75.02	77.38	74.98	70.36	63.94	54.92	40.61	16.11	-25.15	-80.04
3000.0	85.6 (84.8)	83.2	70.15	75.07	78.84	77.54	74.06	67.71	59.65	47.17	26.00	-9.33	-63.00
2615.2	87.4 (86.4)	84.1	67.79	74.99	74.44	78.72	74.12	70.45	62.74	51.50	32.44	1.47	-45.29
2333.6	89.3 (88.1)	85.0	64.41	74.08	74.46	80.38	76.12	72.45	65.57	55.30	34.17	10.02	-33.02
2121.3	90.7 (89.3)	85.3	66.45	73.26	78.60	80.24	74.40	75.43	64.44	54.14	43.71	17.45	-21.45
1954.1	91.4 (90.4)	85.5	66.23	73.20	78.30	80.10	80.03	76.93	70.77	61.58	46.72	22.62	-13.94
1831.2	91.3 (90.5)	85.1	65.93	72.03	77.89	79.45	74.47	76.79	71.40	62.52	44.53	25.79	-4.63
1732.1	91.3 (90.4)	85.0	65.59	71.57	77.32	74.61	72.51	76.77	71.46	62.44	49.50	27.83	-4.44
1655.1	91.2 (90.2)	84.7	64.82	71.44	76.81	74.44	74.32	76.73	71.42	63.40	50.37	29.53	-1.45
1546.3	91.2 (90.2)	84.7	65.40	71.32	76.72	74.13	74.23	76.62	71.99	63.45	51.29	31.08	4.69
1552.9	90.9 (90.7)	84.2	65.10	70.63	76.69	78.85	74.72	76.17	71.71	63.41	51.40	31.66	2.02
1573.1	91.0 (90.8)	84.3	64.98	70.49	75.91	78.74	78.70	76.44	72.36	64.55	52.33	32.91	3.70
1505.7	90.8 (90.4)	84.0	64.99	69.97	75.64	78.34	74.42	76.24	72.41	64.06	52.54	33.31	4.64
1500.0	90.9 (90.6)	83.8	64.11	64.53	75.20	77.48	74.31	76.37	72.40	65.16	53.08	33.91	5.14
1405.7	91.1 (90.7)	83.7	63.74	64.47	74.51	77.55	74.33	76.75	73.27	64.52	53.49	34.17	5.23
1323.1	91.2 (90.8)	83.7	63.53	64.23	74.31	77.41	74.15	76.70	73.50	65.74	53.57	34.15	4.02
1252.0	90.9 (90.6)	83.4	62.45	73.46	76.97	74.07	76.81	73.34	69.48	63.45	53.45	33.31	1.47
1546.3	90.9 (90.6)	83.4	62.05	67.10	73.76	76.75	74.07	76.46	73.43	65.34	52.72	32.42	2.17
1655.1	90.6 (90.3)	82.9	60.43	66.07	72.44	76.14	77.55	76.73	73.33	65.11	52.04	31.24	-1.15

RUN NUMBER	227.000
AIRAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	9.400
PRIMARY TEMPERATURE (R)	317.000
SECONDARY TEMPERATURE (R)	326.000
PRIMARY PRESSURE (PSI)	1.600
AREA RATIO	9.700
VELOCITY RATIO	0.369
PRIMARY VELOCITY (FT/SEC)	886.700
MASS FLOW RATIO	3.201
PRIMARY MASS FLOW (LBS/SEC)	0.207
THRUST (LBS)	12.055
ENVIRONMENTAL TEMPERATURE (R)	321.000
ENVIRONMENTAL PRESSURE (PSI) (MG)	29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	50.000
CALIBRATION FACTOR (MV TO DY/S) (C)	0.004
INSTRUMENTATION NOISE FLOOR (DB)	47.532

ROCKET POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	8.36025E-02	119.2	THRUST	POWER LEVEL (DB)
500	1.32854E-03	101.2	10000	148.4
1000	4.19377E-03	106.2	20000	151.4
2000	1.43502E-02	111.6	40000	154.4
4000	2.14623E-02	113.3	80000	157.4
8000	2.12895E-02	113.3		
16000	1.30375E-02	111.2		
31500	7.93828E-03	109.0		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	79.0	85.0	89.4	87.3	82.1	76.5	74.7	93.1
20.0	78.0	84.2	89.7	89.2	85.4	80.3	77.0	94.2
25.0	77.0	83.7	89.5	90.3	88.0	83.6	79.9	95.1
30.0	75.6	81.9	88.2	90.1	89.1	85.3	81.8	95.0
35.0	74.4	80.3	86.4	89.1	89.1	86.1	82.6	94.5
40.0	73.1	78.4	84.8	87.5	88.3	85.9	82.7	93.4
45.0	72.1	76.7	82.9	85.6	86.8	85.1	82.4	92.0
50.0	72.2	75.6	81.3	84.3	85.0	84.5	82.2	91.1
55.0	70.9	75.2	80.6	83.6	84.9	83.5	81.5	90.3
60.0	70.5	74.8	79.7	82.8	84.2	82.7	80.6	89.5
65.0	70.6	74.3	79.0	81.7	82.9	81.6	80.0	88.5
70.0	69.8	74.3	78.6	81.2	82.2	80.9	79.4	87.9
75.0	69.4	73.7	77.4	80.7	81.3	80.2	79.0	87.2
80.0	69.4	73.4	77.0	79.6	80.5	79.4	78.3	86.4
85.0	69.6	72.8	77.0	79.6	79.8	78.7	77.5	86.0
90.0	69.6	72.7	76.6	78.4	79.3	78.2	77.1	85.4
95.0	68.6	72.4	76.4	78.1	78.9	77.6	76.7	85.0
100.0	68.3	71.5	75.7	77.7	78.0	76.8	76.2	84.3
105.0	67.7	70.9	75.3	76.8	77.4	76.2	75.0	83.7
110.0	67.8	70.4	74.4	76.4	77.1	75.9	75.7	83.3
115.0	66.8	69.8	73.9	75.6	76.2	75.2	75.3	82.7

MODEL THRUST = 12.055 FULL SCALE THRUST = 20000.000

L.	PNDA.	OASPL	12.3	OCTAVE 24.6	BAND 49.1	SOUND 98.2	PRESSURE 196.4	LEVELS 392.8	773.4	1546.7	3068.9	6137.8	12275.5
5795.6	65.71 64.51	70.4	56.49	62.50	66.85	64.56	58.92	51.91	46.75	35.54	15.13	-22.25	-86.22
4385.7	71.91 70.41	73.8	57.89	64.11	69.57	68.99	64.83	58.66	52.82	43.60	27.43	-1.59	-50.73
3549.3	76.81 75.01	76.5	58.76	65.45	71.17	71.97	69.37	64.11	59.26	50.29	36.57	12.52	-27.82
3080.0	79.81 77.61	77.9	58.80	65.15	71.41	73.25	71.91	67.50	62.18	54.93	42.92	22.12	-12.44
2615.2	81.41 78.91	78.5	59.22	66.67	70.76	73.40	73.24	69.58	64.54	57.84	46.99	28.47	-2.05
2333.4	82.11 79.31	78.5	59.49	63.82	70.17	72.55	73.43	70.48	65.88	59.58	49.57	32.72	5.17
2121.3	82.21 79.11	77.9	58.35	62.97	69.08	71.77	72.78	70.58	66.65	60.65	51.27	35.69	18.17
1958.1	82.51 79.11	77.7	59.13	62.54	68.21	71.17	72.44	70.75	67.29	61.51	52.62	38.01	14.41
1831.7	82.31 78.81	77.5	59.44	62.49	69.13	71.02	72.17	70.31	67.29	61.49	53.19	39.33	17.06
1732.1	82.11 78.51	77.2	59.53	62.78	67.66	70.79	71.97	70.07	66.44	61.49	53.29	40.01	18.79
1655.1	81.71 77.31	76.6	49.02	62.70	67.39	70.15	71.05	69.44	66.79	61.45	53.48	40.66	20.25
1596.3	81.51 77.61	76.4	58.43	63.01	67.29	69.42	70.13	69.06	66.63	61.37	53.57	41.10	21.31
1552.9	81.11 77.11	76.0	48.46	62.60	66.77	69.58	70.01	68.54	66.46	61.26	53.60	41.39	22.05
1523.1	80.51 76.51	75.3	58.90	62.56	66.12	69.41	69.40	67.47	65.92	60.76	53.18	41.15	22.12
1505.7	80.01 76.01	75.0	58.77	61.99	66.16	68.75	68.87	67.17	65.30	60.16	52.44	40.71	21.87
1500.0	79.51 75.51	74.5	58.81	61.44	65.44	67.62	68.00	66.49	64.94	59.82	52.31	40.41	21.63
1505.7	79.01 74.91	74.0	47.81	61.57	65.44	67.21	67.94	66.29	64.49	59.36	51.83	39.90	21.08
1552.9	78.11 74.91	73.2	57.45	60.64	64.42	66.71	66.40	65.12	63.85	58.70	51.12	35.08	20.06
1523.1	77.41 73.21	72.5	46.59	59.97	64.24	65.46	64.17	64.55	63.39	58.19	50.52	35.31	19.97
1506.3	76.41 72.41	71.8	50.50	59.10	63.06	65.15	64.57	63.49	62.92	57.86	49.46	37.39	17.60
1655.1	75.71 71.51	70.8	55.14	58.22	62.24	63.94	64.42	63.01	62.16	56.82	48.84	36.93	15.62

MIN. NUMBER	
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	224.000
PRIMARY TEMPERATURE (K)	9.000
SECONDARY TEMPERATURE (K)	527.000
PRIMARY PRESSURE RATIO	530.000
AREA RATIO	1.600
VELOCITY RATIO	9.744
PRIMARY VELOCITY (FT/SEC)	.644
MASS FLOW RATIO	855.242
PRIMARY MASS FLOW (LH/SEC)	6.644
THRUST (LBS)	.207
ENVIRONMENTAL TEMPERATURE (K)	32.394
ENVIRONMENTAL PRESSURE (IN.HG)	521.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.610
CALIBRATION FACTOR (MV TO DY/50 CM)	58.000
INSTRUMENTATION NOISE FLOOR (DB)	.013
	51.287

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.90089E-01	124.6	THRUST	POWER LEVEL (DB)
500	8.71741E-03	109.4	10000	140.5
1000	2.64601E-02	114.2	20000	152.5
2000	5.95475E-02	117.7	40000	155.5
4000	7.06143E-02	118.5	80000	158.6
8000	6.69362E-02	118.3		
16000	3.2615E-02	115.8		
31500	1.97121E-02	112.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	6000	16000	31500	ALL
15.0	87.4	90.5	90.8	87.8	83.9	79.4	77.3	95.9
20.0	86.8	90.8	92.5	90.7	87.2	82.5	80.0	97.4
25.0	85.6	90.4	93.3	92.9	90.2	86.6	83.2	98.6
30.0	84.4	89.5	93.4	94.2	92.7	88.9	85.0	99.5
35.0	83.1	88.3	92.5	94.2	94.4	91.1	86.7	99.9
40.0	82.0	87.0	90.9	92.6	92.9	90.4	86.6	98.6
45.0	80.9	86.0	90.1	91.7	92.5	90.1	84.5	98.0
50.0	80.2	85.0	89.2	90.5	90.8	89.1	86.4	96.8
55.0	79.6	84.8	88.5	89.8	90.4	88.3	85.5	96.2
60.0	78.5	83.4	87.8	89.0	89.4	87.6	85.5	95.4
65.0	78.7	83.5	87.5	88.6	88.7	86.4	83.8	94.9
70.0	77.4	83.0	87.0	87.8	87.6	85.4	82.7	93.9
75.0	77.8	82.7	86.7	87.2	87.0	85.1	82.9	93.5
80.0	77.2	82.4	85.9	86.6	86.1	84.4	82.0	92.8
85.0	76.7	82.1	85.4	86.1	85.4	83.7	81.4	92.3
90.0	76.7	81.4	85.0	85.5	85.2	83.1	81.1	91.8
95.0	75.8	81.2	84.0	85.0	84.6	82.6	80.6	91.4
100.0	75.1	80.4	84.2	84.1	83.8	81.7	80.0	90.6
105.0	75.0	80.3	83.6	83.8	83.5	81.5	79.9	90.4
110.0	74.0	79.6	83.3	83.2	83.1	81.1	79.6	89.8
115.0	74.3	78.4	82.7	82.6	82.3	80.5	79.4	89.2

MODEL THRUST = 32.394 FULL SCALE THRUST = 23000.000

L.	PNDB.	OASPL	OCTAVE		BAND	SOUND	PRESSURE		LEVELS				
			20.1	40.2	80.5	161.0	322.0	644.0	1287.8	2535.6	5031.0	10052.0	20124.1
5795.6	65.01	64.51	60.7	60.59	63.88	63.87	66.52	55.58	44.40	39.88	22.54	-8.87	-64.13
4385.7	71.21	70.41	72.6	62.41	66.35	66.06	65.95	61.70	54.95	47.56	33.71	9.22	-33.33
3549.3	76.41	75.31	75.6	63.09	67.82	70.71	70.08	66.73	61.48	54.14	42.36	21.97	-13.04
3000.0	80.21	78.91	77.9	63.32	68.43	72.21	72.02	70.04	65.62	58.44	46.02	30.32	-26
2615.2	83.01	81.61	79.4	63.16	68.80	72.80	74.12	73.84	69.28	62.03	52.56	36.74	-31.72
2333.8	85.21	81.41	79.1	63.09	69.10	71.44	73.44	73.42	69.17	63.66	54.89	40.45	-21.29
2121.3	87.41	81.81	79.3	62.45	67.84	71.47	73.45	73.87	70.52	64.58	56.33	42.93	-13.73
1950.1	89.51	81.31	78.9	62.82	67.65	71.75	72.94	72.93	70.25	65.40	57.55	44.06	-7.41
1831.7	91.71	81.41	78.9	62.79	67.97	71.65	72.99	73.10	70.22	65.37	57.84	45.87	-3.87
1737.1	93.51	81.11	78.6	62.18	67.04	71.47	72.51	72.68	70.06	65.99	58.70	47.22	-1.15
1655.1	95.11	80.71	78.4	62.76	67.55	71.52	72.53	72.32	69.44	64.85	57.76	46.65	1.12
1546.3	97.41	80.01	77.9	61.77	67.43	71.41	72.06	71.59	68.65	64.20	57.25	46.43	2.30
1552.0	97.41	79.81	77.7	62.45	67.29	71.27	71.70	71.19	68.62	64.65	57.81	47.20	4.11
1523.1	91.41	79.21	77.2	62.03	67.15	70.71	71.32	70.55	68.10	64.04	57.27	46.81	4.43
1505.7	91.41	79.81	76.8	61.54	66.94	70.30	70.49	70.13	67.48	63.57	56.84	46.46	4.50
1500.0	80.91	78.31	76.4	61.92	66.35	69.87	70.35	69.72	66.94	63.24	56.58	46.23	4.40
1504.7	79.41	77.71	75.9	60.74	64.12	69.49	69.82	69.89	66.40	62.76	55.02	45.44	3.44
1523.1	74.41	76.81	75.0	59.40	65.23	69.01	69.91	69.18	65.38	61.49	55.22	44.76	2.38
1527.4	74.01	76.41	74.6	59.44	64.34	68.39	68.43	67.77	64.06	61.04	54.83	44.22	1.13
1544.1	74.21	75.41	73.4	59.76	63.45	67.43	67.47	67.15	64.72	61.07	54.12	43.30	-0.83
1654.1	77.21	74.51	72.4	58.17	62.44	66.71	66.53	64.46	63.40	60.46	53.36	42.25	-3.24

NO. NUM-1EN	
AIRAL POSITION OF PRIMARY WHT, SECONDARY (1/2.5.)	229.000
PRIMARY TEMPERATURE (M)	9.000
SECONDARY TEMPERATURE (M)	530.000
PRIMARY PRESSURE RATIO	535.000
AREA RATIO	1.000
VELOCITY RATIO	9.7MM
PRIMARY VLOCITY (FT/SEC)	1.005
MASS FLOW RATIO	897.787
PRIMARY MASS FLOW (LB/SEC)	10.5M
THRUST (LBS)	1.207
ENVIRONMENTAL TEMPERATURE (R)	67.017
ENVIRONMENTAL PRESSURE (IN.HG)	523.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.010
CALIBRATION FACTOR (MV TO DY/50 CM)	50.000
INSTRUMENTATION NOISE FLOOR (DB)	.036
	60.584

SUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.2795E+00	133.6	THRUST	POWER LEVEL (DB)
500	7.20506E-02	118.6	10000	155.3
1000	2.50989E-01	124.0	20000	158.3
2000	5.24462E-01	127.2	40000	161.3
4000	5.45706E-01	127.4	80000	164.3
8000	4.73940E-01	126.8		
16000	2.74209E-01	124.4		
31500	1.37019E-01	121.4		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	8000	16000	31500	ALL
15.0	97.7	100.6	99.8	96.3	92.9	88.9	85.2	105.4
22.5	97.1	101.9	101.9	98.5	95.4	91.3	88.1	106.9
30.0	95.8	101.2	102.0	100.2	97.7	93.9	90.3	107.5
37.5	94.7	100.8	102.6	101.2	98.5	94.8	91.6	107.6
45.0	92.2	99.5	103.1	102.7	100.6	97.2	93.0	108.3
52.5	91.2	97.1	101.2	101.5	100.6	97.3	93.5	107.2
60.0	89.6	95.6	99.8	100.7	100.4	97.6	94.1	106.6
67.5	88.4	94.2	98.6	99.8	99.7	97.6	94.2	105.8
75.0	87.0	93.4	97.8	99.2	98.4	97.2	94.0	105.2
82.5	86.6	92.0	97.0	98.4	98.7	96.6	94.0	104.5
90.0	84.3	91.8	96.7	97.6	97.6	95.7	92.7	103.7
97.5	85.8	91.2	96.0	97.2	97.1	95.1	92.2	103.2
105.0	85.4	90.9	95.4	96.3	96.5	94.7	91.8	102.6
112.5	85.4	90.6	94.9	96.1	95.9	93.8	91.2	102.1
120.0	84.7	90.0	94.4	95.6	95.4	93.5	91.0	101.7
127.5	84.3	89.6	94.0	95.1	94.9	92.9	90.5	101.2
135.0	84.1	89.3	93.4	94.7	94.4	92.5	90.0	100.8
142.5	83.4	89.0	93.5	94.3	94.1	92.2	89.9	100.5
150.0	83.3	88.1	92.9	93.6	93.7	91.9	89.9	100.0
157.5	82.3	87.5	92.5	93.5	93.6	92.1	89.6	99.8
165.0	81.5	86.7	92.3	93.2	93.4	92.1	89.5	99.6

MODEL THRUST = 67.017 FULL SCALE THRUST = 20000.000

L.	PROB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS										
			20.9	57.9	115.8	231.5	463.1	926.2	1823.4	3646.8	7235.8	14471.6	28943.2
8795.6	72.8 (72.7)	74.9	67.74	70.59	69.54	65.49	60.31	51.95	38.46	14.52	-27.89	-99.71	-210.03
4385.7	78.5 (78.2)	78.9	69.58	74.30	74.17	70.32	65.85	58.46	47.85	29.01	-3.82	-58.90	-143.11
3849.3	82.6 (82.1)	81.2	70.10	75.64	76.42	73.91	70.41	63.91	54.39	30.53	11.39	-33.75	-102.48
3496.6	85.2 (84.6)	82.4	70.50	76.46	78.21	76.45	72.87	68.95	58.65	44.82	21.41	-17.21	-75.77
2615.2	88.1 (87.3)	84.6	69.15	76.18	79.86	79.27	76.42	70.96	67.41	49.96	29.17	-4.88	-56.31
2333.6	88.8 (87.8)	84.4	69.14	75.06	79.03	79.07	77.52	72.30	64.66	53.23	34.36	3.65	-42.56
2121.3	89.6 (88.5)	84.5	68.33	74.38	78.45	79.19	78.26	73.85	66.74	56.08	38.65	10.46	-31.82
1954.1	89.9 (88.6)	84.4	67.82	73.67	77.99	78.88	78.24	74.71	67.96	57.89	41.57	15.32	-23.94
1831.2	90.2 (88.8)	84.4	67.06	73.45	77.74	78.95	78.61	75.00	68.74	59.14	43.89	19.95	-17.96
1732.1	90.3 (88.7)	84.2	67.12	72.50	77.41	78.64	78.42	75.04	69.48	60.22	45.44	21.87	-13.20
1655.1	89.4 (88.2)	83.9	67.22	72.73	77.51	78.25	77.79	74.41	68.27	59.89	45.53	22.90	-10.67
1596.3	89.7 (88.0)	83.7	67.07	72.44	77.13	78.20	77.58	74.44	68.80	60.03	46.17	24.22	-8.34
1552.0	89.4 (87.7)	83.3	67.23	72.36	76.43	77.91	77.74	74.30	68.84	60.23	46.06	25.22	-6.53
1523.1	89.1 (87.4)	83.0	67.08	72.24	76.45	77.67	76.88	73.57	68.40	59.90	46.54	25.45	-5.75
1505.7	88.8 (87.0)	82.7	66.49	71.74	76.87	77.15	76.48	73.47	68.41	59.97	46.73	25.85	-5.04
1500.6	88.3 (86.5)	82.2	66.06	71.35	76.75	76.65	75.87	72.84	67.93	59.51	46.31	25.50	-5.28
1505.7	87.8 (86.1)	81.5	65.84	71.64	75.46	76.22	75.50	72.39	67.40	58.96	45.72	25.84	-6.04
1523.1	87.5 (85.7)	81.4	65.05	70.40	75.09	75.15	75.09	72.06	67.17	58.67	45.31	24.22	-6.48
1552.0	88.0 (85.0)	80.7	64.76	69.58	74.36	74.44	74.44	71.53	66.91	58.30	44.74	23.30	-8.65
1596.3	88.3 (84.6)	80.2	63.51	68.74	73.49	74.50	74.10	71.46	66.38	57.62	43.76	21.80	-10.76
1655.1	85.7 (84.0)	79.7	62.45	67.83	72.16	73.94	73.63	71.02	65.84	56.88	42.49	17.75	-13.90

WIND NUMBER	0	230.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INCH)	0	9.000
PRIMARY TEMPERATURE (IN)	0	530.000
SECONDARY TEMPERATURE (IN)	0	530.000
PRIMARY PRESSURE RATIO	0	1.500
AREA RATIO	0	9.740
VELOCITY RATIO	0	1.157
PRIMARY VELOCITY (FT/SEC)	0	497.747
MASS FLOW RATIO	0	12.441
PRIMARY MASS FLOW (LR/SEC)	0	.212
THRUST (LBS)	0	90.869
ENVIRONMENTAL TEMPERATURE (IN)	0	523.000
ENVIRONMENTAL PRESSURE (IN.HG)	0	29.630
ENVIRONMENTAL HUMIDITY (PER CENT)	0	50.000
CALIBRATION FACTOR (MV TO DY/ST CM)	0	.056
INSTRUMENTATION NOISE FLOOR (DB)	0	64.570

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.81226E+00	138.3	THRUST	POWER LEVEL (DB)
500	2.01793E-01	123.0	10000	150.7
1000	6.94439E-01	127.4	20000	161.8
2000	1.45356E+00	131.6	40000	164.8
4000	1.47538E+00	131.7	80000	167.8
8000	1.41082E+00	131.5		
16000	9.68914E-01	129.9		
31500	6.01352E-01	127.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	102.4	105.7	105.2	101.7	98.8	95.6	92.3	110.6
20.0	101.7	106.5	106.6	102.8	100.0	96.9	93.9	111.5
25.0	100.8	106.4	107.8	104.3	101.7	98.8	95.8	112.3
30.0	99.8	105.6	108.2	105.8	103.4	100.2	97.9	112.7
35.0	97.6	104.0	107.5	106.5	104.3	101.1	97.5	112.5
40.0	95.7	101.9	106.2	105.2	105.2	102.1	99.1	112.0
45.0	93.6	99.7	104.2	105.6	105.3	102.1	98.8	111.2
50.0	92.2	98.2	102.9	105.3	104.9	102.3	99.3	110.5
55.0	91.7	97.0	101.7	103.5	104.2	102.3	99.6	109.8
60.0	89.8	95.8	101.1	102.7	103.4	102.0	99.7	109.2
65.0	90.2	95.4	100.3	102.1	102.4	100.6	98.1	108.2
70.0	89.6	94.8	99.5	101.5	101.7	100.1	98.7	107.6
75.0	89.0	94.3	98.9	100.5	100.9	99.6	97.7	107.0
80.0	88.6	93.5	98.4	99.9	100.2	99.3	98.0	106.5
85.0	88.3	93.3	97.8	99.3	99.9	99.0	97.9	106.1
90.0	88.3	92.7	97.4	99.0	99.8	99.2	97.9	106.0
95.0	87.6	92.4	97.3	98.6	98.4	98.5	97.4	105.6
100.0	86.5	91.7	96.7	98.0	99.1	99.3	98.3	105.6
105.0	86.3	92.1	96.7	98.0	99.3	99.5	98.5	105.7
110.0	85.5	91.1	96.4	97.8	99.3	100.0	99.0	105.9
115.0	84.9	90.7	96.0	97.8	99.2	99.9	98.4	105.6

MODEL THRUST = 90.869 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	33.7	OCTAVE 67.4	BAND 134.8	SOUND 269.6	PRESSURE 539.2	LEVELS 1078.5	2123.3	4246.5	8425.6	16851.2	33702.5
8795.6	77.7 (77.6)	78.7	71.07	74.28	73.51	69.23	64.20	55.79	40.81	13.47	-34.38	-113.95	-233.57
4385.7	82.5 (82.3)	82.1	72.86	77.57	77.51	73.09	68.68	61.57	49.70	28.28	-8.66	-69.60	-160.85
3549.3	86.2 (85.9)	84.6	73.80	79.34	80.52	76.54	72.46	68.50	56.40	38.49	8.02	-41.87	-110.29
3000.0	89.3 (88.8)	86.5	74.22	79.94	82.48	79.64	76.18	70.17	60.96	45.35	19.14	-23.50	-86.86
2615.2	91.1 (90.5)	87.4	73.26	79.62	82.97	81.66	78.46	72.90	64.05	50.07	26.83	-10.72	-66.34
2333.6	92.3 (91.5)	87.6	72.31	78.50	82.68	82.34	80.50	75.23	67.57	54.77	33.71	-1.12	-50.07
2121.3	92.9 (92.0)	87.7	71.01	77.14	81.56	82.59	81.52	76.37	68.82	56.91	37.49	6.46	-39.22
1958.1	93.4 (92.4)	87.5	70.38	76.28	80.94	82.09	81.87	77.58	70.63	59.41	41.25	12.38	-30.02
1831.2	93.7 (92.5)	87.4	70.47	75.67	80.35	81.89	81.85	78.32	71.92	61.43	44.06	16.87	-22.98
1732.1	93.8 (92.4)	87.2	69.04	74.97	80.17	81.57	81.65	78.68	72.84	62.60	46.20	20.32	-17.54
1655.1	93.2 (91.9)	86.8	69.83	74.93	79.81	81.60	81.07	77.73	71.91	61.95	44.15	21.28	-15.82
1584.3	93.1 (91.7)	86.5	69.51	74.65	79.34	81.08	80.71	77.63	72.32	62.62	47.26	23.17	-11.95
1552.9	93.0 (91.5)	86.1	69.17	74.44	79.01	80.34	80.23	77.48	72.45	62.93	47.91	24.39	-9.86
1523.1	93.1 (91.5)	85.7	68.89	73.84	78.60	79.92	79.70	77.36	72.94	63.59	48.40	25.68	-7.97
1505.7	93.0 (91.4)	85.4	68.71	73.72	78.12	79.42	79.44	77.22	73.04	63.72	49.06	26.17	-7.13
1500.0	93.0 (91.4)	85.3	68.74	73.11	77.41	79.12	79.44	77.41	73.15	63.65	49.24	26.42	-6.76
1505.7	93.0 (90.4)	84.8	68.02	72.84	77.42	78.71	79.96	76.74	72.61	63.24	48.63	25.74	-6.50
1453.1	92.7 (91.0)	84.5	67.24	72.13	76.74	78.10	78.58	77.36	73.24	63.44	49.11	25.98	-7.67
1552.9	92.4 (91.0)	84.5	68.43	72.19	76.77	77.44	78.56	77.33	73.22	63.49	48.48	25.16	-8.09
1596.3	92.4 (90.9)	84.2	68.45	72.44	76.27	77.44	78.33	77.60	73.35	63.65	48.29	24.20	-10.92
1655.1	91.6 (90.0)	83.6	64.46	70.30	75.50	77.34	77.88	77.69	72.25	62.31	46.50	21.63	-14.67

RUN NUMBER	231.000
AIRAL POSITION IN PRIMARY W.T. SECONDARY (L+S)	9.000
PRIMARY TEMPERATURE (IN)	527.000
SECONDARY TEMPERATURE (IN)	544.000
PRIMARY PRESSURE (IN)	2.500
AREA RATIO	1.000
VELOCITY RATIO	.361
PRIMARY VELOCITY (FT/SEC)	1209.998
MASS FLOW RATIO	.314
PRIMARY MASS FLOW (LB/SEC)	.333
THRUST (LBS)	14.049
ENVIRONMENTAL TEMPERATURE (IN)	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.550
ENVIRONMENTAL HUMIDITY (PER CENT)	60.900
CALIBRATION FACTOR (MV TO DY/SH CM)	.040
INSTRUMENTATION NOISE FLOOR (DB)	61.577

DUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.73080E+00	132.4	THRUST	POWER LEVEL (DB)
500	4.71983E-03	106.7	10000	160.9
1000	3.27314E-02	115.1	20000	163.9
2000	1.48186E-01	123.0	40000	166.9
4000	4.59855E-01	126.6	80000	169.9
8000	2.25254E-01	127.2		
16000	3.15090E-01	125.0		
31500	1.91963E-01	122.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 16000	31500	OVER ALL
15.0	85.9	95.2	102.4	104.5	105.5	97.8	91.8	109.0
20.0	85.6	94.6	102.1	104.5	103.3	98.2	93.5	108.9
25.0	84.3	93.7	101.9	104.6	103.4	98.1	93.5	108.9
30.0	82.5	91.6	100.1	104.3	103.4	98.6	94.1	108.5
35.0	80.6	89.4	98.5	102.9	103.3	99.7	95.8	107.9
40.0	78.5	87.3	96.2	100.8	102.0	99.3	96.7	106.5
45.0	77.1	85.1	93.0	98.4	100.3	98.8	95.7	105.0
50.0	76.1	83.5	91.0	96.0	98.6	97.8	95.5	103.5
55.0	75.2	82.6	89.7	94.4	96.9	96.4	95.5	102.2
60.0	74.6	81.5	88.8	93.3	95.8	95.9	94.8	101.3
65.0	74.9	81.6	88.0	92.6	95.4	95.2	94.7	100.9
70.0	74.0	80.8	87.6	92.0	94.7	94.9	93.8	100.3
75.0	74.0	80.1	86.6	91.0	93.8	93.7	93.0	99.3
80.0	73.6	78.5	86.5	90.5	93.0	93.3	92.5	98.8
85.0	72.8	79.8	86.3	90.2	93.0	92.8	92.0	98.5
90.0	72.0	79.4	85.8	89.9	92.7	92.5	91.5	98.1
95.0	72.4	79.0	85.1	89.0	92.2	92.0	90.3	97.5
100.0	72.4	79.0	84.6	88.6	91.9	91.5	90.1	97.1
105.0	71.6	78.1	83.8	88.1	91.2	91.0	89.8	96.5
110.0	71.6	77.4	83.2	87.7	90.7	90.3	89.0	95.9
115.0	70.6	77.1	82.9	87.2	90.3	90.0	88.5	95.5

MODEL THRUST = 14.049 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	13.3	OCTAVE 26.5	BAND 53.0	SOUND 106.0	PRESSURE 212.0	LEVELS 424.1	834.9	1669.7	3312.0	6625.9	13251.8
5795.6	86.0 (85.2)	85.3	62.74	72.04	79.19	81.06	79.51	72.34	62.54	50.56	28.71	-11.09	-78.64
4385.7	89.2 (87.0)	87.7	64.40	73.97	81.27	83.60	8.93	75.69	68.13	58.34	41.08	10.23	-41.62
3549.3	91.6 (90.1)	89.6	65.36	74.77	82.97	85.59	84.04	77.80	70.85	62.35	47.81	22.27	-20.24
3004.0	93.4 (91.6)	90.7	65.07	74.10	82.64	86.75	85.58	79.93	73.54	65.89	53.14	31.08	-5.33
2615.2	95.0 (92.8)	91.3	64.39	73.16	82.17	86.44	84.72	82.43	76.79	69.74	59.24	38.63	6.51
2333.6	95.2 (92.6)	90.8	63.20	72.05	80.90	85.40	86.40	83.07	78.31	71.70	61.11	43.29	14.30
2121.3	95.2 (92.2)	90.1	62.68	70.84	78.56	83.88	85.53	83.54	79.08	72.80	62.98	46.53	19.80
1958.1	95.0 (91.7)	89.3	62.38	69.77	77.25	82.15	84.57	83.26	79.71	73.68	64.31	48.87	24.07
1831.7	94.8 (91.1)	88.7	62.08	69.46	76.53	81.14	83.53	82.53	80.52	74.59	65.63	51.00	27.51
1732.1	94.5 (90.7)	88.2	61.95	68.78	76.09	80.57	82.47	82.12	80.30	74.62	65.99	51.99	29.70
1655.1	94.1 (90.8)	87.3	62.56	69.33	75.70	80.22	82.91	82.29	80.67	75.11	65.72	53.21	31.74
1596.3	94.6 (90.6)	88.0	61.79	68.45	75.44	79.92	82.54	82.28	80.14	74.67	66.46	53.34	32.56
1552.9	93.9 (90.8)	87.3	62.23	68.39	75.03	79.18	81.82	81.31	79.62	74.21	66.16	53.30	33.00
1523.5	93.6 (90.5)	86.9	62.04	68.47	74.91	78.84	81.24	81.14	79.35	73.99	66.03	53.36	33.40
1505.7	93.3 (90.2)	86.7	61.38	68.29	74.81	78.64	81.29	80.75	78.97	73.64	65.74	53.18	33.41
1500.0	93.0 (88.9)	86.4	60.59	67.93	74.33	78.37	81.03	80.90	78.48	73.16	65.28	52.75	33.05
1505.7	92.3 (90.3)	85.8	60.98	67.49	73.44	77.84	80.58	79.42	77.89	72.47	64.47	52.01	32.24
1525.1	91.6 (91.7)	85.2	60.88	67.46	73.07	77.36	80.84	77.31	74.48	71.63	63.67	51.00	31.04
1552.9	90.9 (90.9)	84.5	59.94	66.36	72.01	76.27	79.29	78.66	76.42	71.01	62.96	50.10	29.00
1596.3	89.9 (86.0)	83.6	59.60	65.41	71.22	75.63	78.55	77.68	75.34	69.87	61.68	48.54	27.76
1655.1	89.1 (85.2)	82.8	58.32	64.84	70.61	74.82	77.77	77.04	74.43	68.87	60.49	46.99	25.54

WIND NUMBER	
AIRAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	232.000
PRIMARY TEMPERATURE (IN)	9.000
SECONDARY TEMPERATURE (IN)	537.000
PRIMARY PRESSURE RATIO	530.000
AREA RATIO	2.500
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	.712
MASS FLOW RATIO	1221.416
PRIMARY MASS FLOW (LB/SEC)	.645
THRUST (LBS)	.337
ENVIRONMENTAL TEMPERATURE (R)	19.005
ENVIRONMENTAL PRESSURE (IN.HG)	524.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.510
CALIBRATION FACTOR (INV TO DY/SH CM)	60.000
INSTRUMENTATION NOISE FLOOR (DB)	.032
	59.573

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FRQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.09562E+00	130.4	THRUST	POWER LEVEL (DB)
500	7.71718E-03	108.9	10000	157.6
1000	4.27087E-02	116.3	20000	160.6
2000	1.68875E-01	122.3	40000	163.6
4000	2.83436E-01	124.5	80000	166.6
8000	3.03366E-01	124.8		
16000	1.66675E-01	122.2		
31500	1.22842E-01	120.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 16000	31500	OVER ALL
15.0	88.7	96.4	100.6	64.9	97.8	91.8	85.1	103.9
20.0	88.2	96.2	101.5	102.4	99.8	93.1	86.9	108.9
25.0	86.4	95.0	101.2	102.5	100.4	94.6	89.0	107.0
30.0	85.3	92.8	99.6	102.5	101.1	96.0	91.1	106.8
35.0	82.9	90.8	97.6	101.2	101.1	96.9	93.1	106.0
40.0	80.8	88.4	95.4	99.1	100.1	97.1	93.3	104.8
45.0	79.0	85.9	92.6	96.8	98.4	96.6	93.9	103.2
50.0	77.8	84.2	90.5	94.7	96.9	95.6	93.9	101.9
55.0	76.5	83.4	89.0	93.3	95.4	94.6	94.4	100.9
60.0	76.0	82.3	88.5	92.1	93.7	92.8	93.5	99.6
65.0	75.8	82.1	88.2	91.5	93.2	92.5	92.9	99.1
70.0	76.0	81.8	87.2	90.6	92.4	91.7	92.2	98.3
75.0	75.4	81.4	86.9	90.1	91.7	91.3	91.4	97.7
80.0	74.9	80.8	86.4	89.3	91.2	90.5	90.8	97.1
85.0	73.8	80.5	85.6	88.7	90.7	90.0	90.2	96.5
90.0	74.9	79.8	85.2	88.3	90.2	89.5	89.8	96.1
95.0	73.2	76.5	84.9	87.6	89.7	88.8	89.2	95.4
100.0	73.2	79.0	84.3	87.1	89.0	88.0	88.5	94.8
105.0	72.6	76.6	83.4	86.7	88.8	87.5	88.0	94.4
110.0	72.3	78.1	83.3	86.3	88.2	87.0	87.5	93.9
115.0	72.0	77.6	83.4	85.7	87.8	86.5	87.0	93.4

MODEL THRUST = 19.005 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE		HAND	SOUND	PRESSURE		LEVELS					
			15.4	30.8	61.7	123.3	246.6	493.2	971.0	1942.0	3883.2	7706.4	15412.9	
5795.6	78.21	77.51	79.0	64.22	71.88	76.01	60.11	72.34	64.44	53.20	39.52	14.57	-30.38	-105.35
4385.7	84.71	83.91	84.4	66.17	74.15	79.35	80.13	76.97	68.90	59.17	48.09	28.48	-6.27	-63.73
3549.3	87.71	86.61	86.4	66.18	74.76	80.97	92.11	79.61	72.65	64.21	54.67	38.23	9.53	-37.54
3000.0	90.11	88.61	87.6	66.52	74.02	80.82	83.58	81.82	75.78	68.48	59.95	45.59	20.87	-19.38
2615.2	91.41	89.81	88.0	65.31	73.19	80.01	83.49	83.09	78.04	72.12	64.30	51.39	29.46	-6.01
2333.6	92.01	89.81	87.7	64.19	71.77	78.79	82.37	83.15	79.39	73.67	66.37	54.53	34.64	2.66
2121.3	92.01	89.31	86.9	63.21	70.17	76.93	80.90	82.30	79.76	75.40	68.49	57.46	39.10	9.76
1954.1	91.81	88.71	86.2	62.74	69.17	75.42	79.57	81.48	79.59	76.35	69.75	59.33	42.15	14.84
1831.7	91.91	88.41	85.9	61.98	69.90	75.13	78.72	80.66	79.18	77.55	71.18	61.24	44.99	19.25
1732.1	91.31	87.41	85.0	62.04	68.34	74.46	77.39	79.38	77.99	77.28	71.09	61.53	45.99	21.48
1655.1	91.41	87.41	85.0	62.22	68.51	74.61	77.79	79.31	78.11	77.22	71.17	61.91	46.92	23.37
1596.1	91.11	86.91	84.5	62.75	68.47	73.42	77.25	78.84	77.58	76.85	70.91	61.87	47.31	24.49
1552.9	90.71	86.71	84.2	62.32	68.35	73.47	76.93	78.44	77.53	76.38	70.51	61.63	47.39	25.11
1523.1	90.31	86.11	83.8	62.00	67.87	73.50	76.39	78.11	76.89	75.94	70.13	61.36	47.34	25.42
1505.7	89.91	85.71	83.3	61.05	67.70	72.78	75.42	77.62	76.46	75.51	69.74	61.03	47.13	25.43
1500.0	89.91	85.21	82.4	62.13	67.02	72.47	75.52	77.24	75.99	75.11	69.35	60.67	46.81	25.14
1504.7	81.41	84.51	82.2	60.47	63.74	72.07	74.74	76.71	75.27	74.64	69.88	59.97	46.87	24.38
1523.1	88.01	83.71	81.5	60.37	65.10	71.19	74.11	75.84	74.35	73.66	67.85	59.09	45.86	23.14
1552.9	87.71	83.01	80.4	59.98	65.40	70.81	71.80	75.48	73.69	72.92	67.05	59.17	43.93	21.65
1596.3	84.41	82.71	80.1	59.01	64.43	70.03	72.97	74.65	72.92	72.15	66.21	57.16	42.60	19.78
1655.1	85.41	81.41	79.4	58.38	63.94	69.83	72.06	73.91	72.04	71.25	65.20	55.94	40.95	17.40

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	233.000
PRIMARY TEMPERATURE (IN)	9.000
SECONDARY TEMPERATURE (IN)	536.000
PRIMARY PRESSURE RATIO	978.000
AREA RATIO	2.500
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	843
MASS FLOW RATIO	1220.279
PRIMARY MASS FLOW (LB/SEC)	882
THRUST (LBS)	337
ENVIRONMENTAL TEMPERATURE (IN)	22.252
ENVIRONMENTAL PRESSURE (IN.HG)	524.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.510
CALIBRATION FACTOR (INV TO DY/SU CM)	60.000
INSTRUMENTATION NOISE FLOOR (DB)	0.028
	50.348

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.10781E+00	130.4	THRUST	POWER LEVEL (DB)
500	9.43496E-03	109.7	10000	157.0
1000	5.25562E-02	117.2	20000	159.0
2000	1.77572E-01	122.5	40000	163.0
4000	2.89673E-01	124.6	80000	166.0
8000	2.99492E-01	124.6		
16000	1.70120E-01	122.3		
31500	1.08960E-01	120.4		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	SOUND PRESSURE LEVELS	OVERALL
		1000 2000 4000 8000 16000 31500		ALL
15.0	90.2	97.5 100.6 99.7 96.4 89.7 84.7		105.1
20.0	88.8	96.6 101.0 101.0 98.5 91.9 86.5		106.0
25.0	87.4	95.7 101.1 102.1 99.8 93.7 88.3		106.6
30.0	85.5	93.9 99.6 102.0 100.5 95.3 90.4		106.4
35.0	83.5	91.5 98.1 100.9 100.5 96.3 91.9		105.7
40.0	81.5	89.2 95.6 99.0 100.0 97.0 93.3		104.7
45.0	79.8	87.0 93.0 96.8 98.1 96.2 92.9		103.0
50.0	78.6	85.4 91.5 94.9 96.7 95.2 92.9		101.7
55.0	77.3	84.1 90.5 93.9 95.9 94.9 93.2		101.1
60.0	77.2	83.7 89.7 93.1 94.7 93.9 92.9		100.3
65.0	77.2	83.2 89.0 92.2 94.0 93.0 92.2		99.5
70.0	76.4	82.7 88.3 91.3 93.2 92.3 91.5		98.8
75.0	76.4	82.1 87.8 90.9 92.5 91.9 91.2		98.3
80.0	76.1	82.2 87.9 90.5 91.8 91.2 90.8		97.8
85.0	75.7	81.8 86.9 89.8 91.5 90.8 90.0		97.2
90.0	74.8	81.3 86.4 89.5 91.3 90.9 89.5		96.7
95.0	74.6	80.5 85.6 88.8 90.7 89.5 89.0		96.2
100.0	74.1	80.5 85.6 88.5 90.3 89.0 88.5		95.8
105.0	74.6	79.9 85.1 87.8 89.5 88.5 88.0		95.2
110.0	73.6	79.4 84.6 87.3 89.2 88.0 87.8		94.8
115.0	72.8	78.6 84.0 87.2 89.0 87.8 87.1		94.4

MODEL THRUST = 22.252 FULL SCALE THRUST = 20000.000

L.	PND8.	OASPL	OCTAVE BAND	SOUND PRESSURE LEVELS
			16.7 33.4 66.7 133.4 266.8 533.7 1050.7 2101.4 4169.5 8338.9 16677.9	
5795.4	78.01 77.51	79.6	65.03 72.31 75.16 74.13 70.07 61.30 51.19 36.53 9.80 -38.04 -117.07	
4385.7	83.17 82.31	82.9	66.01 73.46 78.21 76.01 74.94 66.70 57.47 45.64 24.69 -12.24 -72.78	
3549.3	86.61 85.61	85.3	66.50 74.73 80.16 80.93 78.21 70.83 62.35 52.20 34.67 4.21 -45.35	
3008.0	89.01 87.71	86.6	66.10 74.44 80.14 82.38 80.51 74.19 66.63 57.59 42.31 16.09 -24.76	
2615.2	90.51 88.81	87.0	65.26 73.27 78.77 82.49 81.75 74.56 69.86 61.59 47.89 24.65 -17.65	
2333.5	91.41 89.31	86.9	64.22 71.54 78.30 81.64 82.27 78.44 72.66 64.96 52.41 31.35 -2.76	
2121.3	90.91 88.51	86.0	63.34 70.52 76.56 80.19 81.26 74.62 73.42 66.15 54.67 35.06 4.23	
1958.1	90.81 88.71	85.4	62.83 69.69 75.70 74.05 80.57 74.39 74.35 67.41 56.40 34.24 9.56	
1831.2	91.11 88.01	85.4	62.17 68.93 75.29 74.62 80.42 78.68 75.44 68.75 58.26 41.09 16.07	
1732.1	90.91 87.71	85.0	62.48 68.44 74.45 76.32 74.74 78.22 75.74 69.26 59.17 42.76 17.04	
1655.1	90.71 87.31	84.7	62.84 68.45 74.70 77.42 74.38 77.81 75.57 69.24 59.46 43.45 18.94	
1596.3	90.51 86.91	84.3	62.48 68.71 74.32 77.25 74.93 77.47 75.55 69.34 59.81 44.65 20.51	
1552.4	90.31 86.71	84.0	62.72 69.16 74.04 77.03 74.51 77.35 75.25 69.12 59.77 44.75 21.34	
1523.1	90.11 86.31	83.7	62.51 68.63 74.27 76.48 77.42 74.40 75.05 68.99 59.75 44.97 21.99	
1505.7	89.51 85.91	83.3	62.21 68.12 73.17 76.25 77.19 74.52 74.37 68.34 59.17 44.52 21.77	
1500.0	89.01 85.31	82.9	61.40 67.91 72.99 75.47 77.56 75.72 73.96 67.92 58.78 44.17 21.50	
1504.7	88.51 84.71	82.3	61.14 67.17 72.46 75.24 74.45 74.23 73.40 67.37 58.21 43.56 20.21	
1523.1	87.71 84.21	81.5	60.57 66.47 72.75 74.41 74.49 74.54 72.75 66.69 57.65 42.67 19.69	
1552.9	87.01 83.31	80.4	60.47 66.16 71.14 73.11 75.44 73.89 72.06 65.94 56.58 41.54 19.19	
1596.3	86.31 82.61	80.3	60.14 65.14 70.40 73.23 74.52 73.16 71.51 65.30 55.77 40.41 18.47	
1655.1	85.31 81.91	79.6	59.55 64.74 69.40 72.74 74.43 72.40 71.41 64.08 54.31 39.50 18.79	

RUN NUMBER	234.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.000
PRIMARY TEMPERATURE (R)	976.000
SECONDARY TEMPERATURE (R)	925.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	2.007
VELOCITY RATIO	0.376
PRIMARY VELOCITY (FT/SEC)	1208.862
MASS FLOW RATIO	0.581
PRIMARY MASS FLOW (LB/SEC)	0.337
THRUST (LBS)	15.403
ENVIRONMENTAL TEMPERATURE (R)	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.910
ENVIRONMENTAL HUMIDITY (PER CENT)	60.000
CALIBRATION FACTOR (MV TO OY/30 CM)	0.040
INSTRUMENTATION NOISE FLOOR (DB)	61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.95224E+00	132.9	THRUST 10000	POWER LEVEL (DB) 161.0
500	0.48529E-03	100.5		
1000	3.28072E-02	115.2	20000	164.0
2000	2.09497E-01	123.2	40000	167.0
4000	5.47225E-01	127.4	80000	170.1
8000	6.17279E-01	127.9		
16000	3.34194E-01	125.2		
31500	2.06791E-01	123.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	SOUND PRESSURE LEVELS	4000	8000	16000	31500	OVER ALL
15.0	86.3	85.2	101.9	104.7	103.8	99.8	92.7	109.0		
20.0	85.6	84.7	102.7	105.7	104.5	99.4	94.1	110.0		
25.0	84.1	83.6	102.3	105.1	103.3	99.3	94.7	110.3		
30.0	82.5	81.7	100.9	105.3	104.8	99.8	95.3	109.6		
35.0	79.8	80.4	98.4	103.8	104.4	100.2	98.1	108.7		
40.0	77.8	87.2	96.1	101.4	102.6	100.0	96.4	107.1		
45.0	76.1	84.9	93.1	98.4	100.9	98.9	98.2	105.1		
50.0	75.5	83.1	91.1	96.4	98.9	97.4	95.5	103.6		
55.0	74.6	82.6	89.8	94.9	97.1	96.8	95.8	102.8		
60.0	74.3	81.6	88.9	93.6	96.1	95.7	94.9	101.5		
65.0	74.3	81.3	88.6	92.8	95.3	94.8	94.7	100.8		
70.0	74.0	81.1	87.8	92.1	94.4	94.4	94.2	100.2		
75.0	73.6	80.8	87.2	91.3	93.5	93.7	93.6	99.3		
80.0	73.0	79.9	86.7	90.7	92.8	93.1	92.9	98.8		
85.0	72.6	79.9	86.3	90.0	92.4	92.8	92.5	98.0		
90.0	72.0	79.4	85.9	89.5	92.4	92.0	91.7	97.0		
95.0	71.6	78.9	85.1	89.0	91.3	91.3	91.0	97.2		
100.0	71.6	78.3	84.5	88.4	90.9	91.0	90.5	96.7		
105.0	72.0	77.9	84.3	87.8	90.4	90.5	90.0	96.2		
110.0	70.6	77.4	83.8	87.3	90.2	90.0	89.5	95.8		
115.0	70.6	76.6	83.3	86.9	89.8	89.5	89.0	95.3		

MODEL THRUST = 15.403 FULL SCALE THRUST = 20000.000

LV	PNDB	OASPL	13.9	27.8	55.5	111.0	222.0	444.0	874.2	1748.3	3496.9	6993.9	13987.8
8795.6	85.81	88.11	84.9	82.68	71.60	78.21	88.83	79.15	72.53	62.87	50.28	27.45	-13.88
4385.7	89.91	88.81	88.3	84.40	73.57	81.52	84.40	82.72	76.43	68.03	57.86	39.92	7.92
3549.3	92.81	91.41	90.8	84.75	74.26	82.93	86.67	85.66	78.65	71.41	62.41	47.52	-21.05
3086.0	94.21	92.81	91.3	84.67	73.89	82.98	87.29	86.57	80.65	74.11	66.21	52.98	-7.41
2615.2	95.81	93.31	91.0	83.14	72.70	81.74	87.03	87.80	82.43	75.34	67.21	57.36	3.94
2333.6	95.41	92.91	91.0	82.15	71.57	80.36	85.58	86.64	83.37	76.16	71.35	60.39	41.96
2121.3	94.91	91.91	89.8	81.26	70.03	78.21	83.47	85.36	83.14	74.96	72.49	62.26	45.23
1958.1	94.61	91.31	89.0	81.40	69.00	76.91	82.16	84.45	82.65	74.18	72.98	63.30	47.36
1831.2	94.41	90.91	88.3	81.06	69.06	76.26	80.85	83.30	82.26	74.00	73.81	64.57	49.46
1732.1	94.31	90.51	88.0	81.22	68.53	75.84	80.45	82.80	81.91	74.89	74.06	65.16	50.70
1655.1	94.21	90.21	87.7	81.61	68.82	75.86	80.00	82.35	81.41	74.21	74.51	65.87	51.92
1594.3	94.01	90.01	87.5	81.59	68.77	75.37	79.81	81.84	81.34	74.43	74.43	65.99	52.44
1552.9	93.71	89.51	87.0	81.47	68.68	75.08	79.10	81.17	80.87	74.74	74.20	65.91	52.64
1523.1	93.21	89.11	86.5	82.00	67.97	74.89	78.72	80.58	80.53	74.17	73.63	65.44	52.36
1505.7	92.91	88.81	86.2	80.99	68.07	74.41	78.05	80.32	80.30	74.68	73.22	65.09	52.13
1500.6	92.31	88.71	85.8	80.19	67.53	74.03	77.64	80.35	79.52	74.21	72.76	64.65	51.73
1505.7	91.81	88.71	85.0	80.10	66.89	73.23	77.88	79.30	78.97	74.46	72.00	63.87	50.91
1523.1	91.81	88.91	84.4	59.61	66.35	72.54	76.41	78.74	78.40	74.84	71.35	63.16	50.00
1552.9	90.21	88.21	83.7	59.89	65.73	72.13	75.63	78.05	77.72	74.10	70.56	62.27	49.88
1594.3	89.41	85.61	83.8	58.24	65.01	71.37	74.90	77.81	76.94	75.33	69.73	61.29	47.73
1655.1	88.91	84.91	82.2	57.92	63.91	70.84	74.15	76.86	76.12	74.45	68.78	60.11	46.10

RUN NUMBER	234.000
AXIAL POSITION OF PRIMARY WHY. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	533.000
SECONDARY TEMPERATURE (R)	530.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	2.007
VELOCITY RATIO	.715
PRIMARY VELOCITY (FT/SEC)	1216.859
MASS FLOW RATIO	1.262
PRIMARY MASS FLOW (LB/SEC)	.338
THRUST (LBS)	24.322
ENVIRONMENTAL TEMPERATURE (R)	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.510
ENVIRONMENTAL HUMIDITY (PER CENT)	60.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.045
INSTRUMENTATION NOISE FLOOR (DB)	62.503

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.26835E+00	133.6	THRUST	POWER LEVEL (DB)
500	9.00764E-03	109.5	10000	159.7
1000	5.42651E-02	117.3	20000	162.7
2000	2.41932E-01	123.8	40000	165.7
4000	5.96094E-01	127.8	80000	168.7
8000	7.12150E-01	128.5		
16000	3.93412E-01	126.0		
31500	2.50892E-01	124.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
		1000	2000	4000	8000	16000	ALL
15.0	89.5	96.4	101.5	103.2	102.4	98.0	100.2
20.0	89.0	96.4	102.7	105.0	104.8	99.8	100.9
25.0	87.6	95.7	102.7	106.0	105.9	100.6	110.7
30.0	86.0	93.9	101.4	106.1	106.9	101.2	110.0
35.0	80.4	91.8	99.2	104.5	105.0	101.1	109.5
40.0	81.0	89.4	98.9	102.1	103.4	100.0	107.9
45.0	80.3	87.3	94.6	99.6	101.6	100.0	106.3
50.0	78.0	86.1	92.0	97.1	99.9	98.0	104.8
55.0	77.4	85.0	91.5	95.9	98.1	97.6	103.5
60.0	77.9	84.5	90.3	94.9	96.0	96.0	102.0
65.0	76.8	84.2	89.9	93.5	95.9	95.8	101.0
70.0	76.0	84.4	89.3	93.0	94.9	94.7	100.9
75.0	76.8	83.6	88.8	92.2	93.8	94.2	100.0
80.0	76.0	83.6	88.0	91.7	93.5	93.0	99.6
85.0	76.5	82.9	88.0	91.1	92.9	92.9	99.0
90.0	75.6	82.5	87.5	90.8	92.0	92.0	98.4
95.0	75.6	82.2	87.2	89.8	91.8	91.8	97.9
100.0	75.3	81.5	86.7	89.2	91.3	91.0	97.3
105.0	75.0	81.1	86.0	88.6	90.8	90.8	96.9
110.0	74.2	80.4	85.3	88.1	90.9	90.1	96.4
115.0	73.9	79.3	84.9	87.7	90.3	89.8	96.0

MODEL THRUST = 24.322 FULL SCALE THRUST = 20000.000

L	PRD	OR SPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
			17.4	34.9	69.7	139.5	279.0	558.0
5795.6	83.11	82.51	81.0	63.92	70.07	75.06	77.29	75.61
4389.7	80.41	87.07	80.0	65.69	73.23	79.48	81.60	80.52
3549.3	91.01	90.71	88.7	66.30	74.39	81.29	84.43	83.26
3000.0	93.81	92.41	90.2	64.20	74.02	81.46	80.11	85.50
2615.2	94.51	92.71	90.2	61.01	73.15	80.50	85.72	85.45
2333.6	94.51	92.41	89.6	64.10	71.78	79.18	84.26	85.29
2121.3	94.21	91.71	88.8	63.44	70.50	77.71	82.68	84.35
1958.1	93.51	90.71	87.6	62.70	69.96	76.48	80.80	82.45
1831.2	93.41	90.31	87.2	61.83	69.45	75.91	80.19	82.21
1732.1	93.31	89.81	86.7	62.83	69.46	75.21	79.36	81.37
1655.1	93.21	89.51	86.4	62.17	69.48	75.17	79.76	80.92
1596.3	92.61	88.81	85.9	62.40	69.80	75.11	78.56	80.25
1552.9	92.31	88.21	85.3	62.72	69.51	74.62	77.98	79.33
1523.7	91.77	87.77	84.9	62.89	69.40	74.62	77.65	79.25
1505.7	91.61	87.61	84.6	62.70	69.07	74.09	77.11	78.71
1500.0	90.81	86.81	84.0	61.82	68.65	73.65	76.70	78.52
1505.7	90.41	86.41	83.5	61.79	68.30	73.32	75.86	77.64
1523.1	89.51	85.51	82.7	61.36	67.36	72.70	75.17	77.02
1552.9	89.01	85.01	82.2	60.85	67.01	71.40	74.30	76.37
1596.3	88.01	84.21	81.4	59.89	66.02	70.90	73.83	76.19
1655.1	87.11	83.41	80.7	59.19	64.65	70.20	72.87	75.20

RUN NUMBER	210,000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (IN.)	2.000
PRIMARY TEMPERATURE (IN)	522.000
SECONDARY TEMPERATURE (IN)	520.000
PRIMARY PRESSURE (PSI)	2.500
AREA RATIO	2.007
VELOCITY RATIO	0.451
PRIMARY VELOCITY (FT/SEC)	1204.237
MASS FLOW RATIO	1.503
PRIMARY MASS FLOW (LBM/SEC)	1.337
THRUST (LBS)	20.130
ENVIRONMENTAL TEMPERATURE (IN)	515.000
ENVIRONMENTAL PRESSURE (IN.HG)	20.570
ENVIRONMENTAL HUMIDITY (PER CENT)	64.000
CALIBRATION FACTOR (IN. TO IN/50 CM)	1.050
INSTRUMENTATION NOISE FLOOR (DB)	63.550

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL (SCALED FOR THRUST)	
OVERALL	3.12027E+00	135.0	THRUST	POWER LEVEL (DB)
500	1.69243E-02	112.3	10000	106.3
1000	8.80047E-02	114.5	20000	103.3
2000	3.52011E-01	125.5	40000	100.3
4000	7.60001E-01	128.9	80000	100.3
8000	9.77147E-01	129.9		
16000	5.76070E-01	127.0		
31500	3.47352E-01	125.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 10000	31500	OVER ALL
15.0	91.8	98.3	102.5	103.2	102.6	99.1	100.8
20.0	91.3	98.0	103.7	105.6	105.9	101.0	100.7
25.0	89.3	97.3	103.0	100.7	100.5	101.7	111.3
30.0	87.9	96.0	102.9	100.9	107.2	102.7	111.8
35.0	86.1	93.9	101.0	105.6	106.6	102.8	110.0
40.0	84.6	92.0	98.6	103.3	104.9	102.2	109.4
45.0	82.6	90.0	96.5	100.8	102.7	101.2	107.6
50.0	81.2	88.1	94.6	98.4	101.0	100.3	106.1
55.0	79.8	87.0	93.5	97.2	99.6	98.9	104.0
60.0	79.0	87.2	92.8	96.2	99.3	97.7	103.8
65.0	79.8	87.0	92.5	95.6	97.5	96.6	103.3
70.0	79.4	84.3	91.5	94.6	96.5	95.9	102.4
75.0	79.3	86.3	91.4	94.1	95.8	96.0	101.6
80.0	79.3	86.0	91.0	93.7	95.2	95.5	101.4
85.0	78.6	85.3	90.4	93.2	94.9	95.0	100.0
90.0	78.3	85.0	90.0	92.7	94.7	94.5	100.3
95.0	78.0	84.3	89.7	92.1	94.1	94.0	100.0
100.0	77.5	83.6	89.2	91.7	93.6	93.5	99.5
105.0	76.4	83.6	89.0	91.0	93.3	93.0	99.1
110.0	76.3	83.0	88.5	90.6	92.5	91.5	98.7
115.0	75.9	81.9	87.5	90.0	92.0	91.0	98.1

MODEL THRUST = 29.130 FULL SCALE THRUST = 20000.000

L.	PNOM.	OASPL	OCTAVE BAND 19.1	39.2	76.3	SOUND 152.7	PRESSURE 305.3	LEVELS 610.7	1202.2	2404.5	4770.8	9541.6	18083.2
5795.6	82.91	82.41	81.5	65.50	71.88	76.03	76.37	76.90	60.82	57.22	40.69	10.68	-42.42
4345.7	84.61	87.81	86.0	67.40	74.04	79.46	81.29	80.48	74.09	66.53	51.29	27.85	-13.06
3549.3	92.01	90.91	88.7	67.19	75.23	81.42	84.31	82.56	77.21	69.63	56.34	34.40	-5.13
3000.0	94.51	93.21	90.5	67.27	75.41	82.18	86.01	84.51	80.09	72.63	62.62	45.64	16.71
2615.2	95.41	93.81	90.8	66.72	74.61	81.52	85.40	84.55	81.61	76.86	65.76	50.57	26.86
2331.6	95.61	93.61	90.2	65.73	73.65	80.15	84.73	83.55	82.10	76.91	66.46	54.58	31.41
2121.3	94.81	92.51	89.1	65.02	72.37	78.47	82.48	80.63	82.15	77.57	69.61	56.73	35.39
1950.1	94.31	91.71	88.4	64.32	71.20	77.48	81.71	80.63	82.08	77.80	70.23	54.10	30.17
1831.2	93.91	91.01	87.7	61.47	70.47	77.68	80.71	82.79	81.37	79.22	70.95	50.41	40.59
1732.1	93.41	90.41	87.2	63.95	71.31	76.66	80.23	82.05	80.73	77.61	70.77	50.49	41.72
1655.1	93.41	90.31	87.1	64.35	71.61	76.46	79.46	81.64	80.64	78.24	71.42	60.70	43.40
1506.3	93.31	89.61	86.5	64.06	71.18	76.11	79.18	80.55	80.11	77.69	71.35	60.91	44.12
1552.9	93.11	89.71	86.3	64.45	71.42	76.44	79.11	80.51	80.09	77.73	71.10	60.86	44.44
1521.1	92.71	89.31	86.0	64.41	71.24	76.23	78.49	80.13	79.78	77.14	70.60	60.50	44.34
1505.7	92.31	88.91	85.6	63.98	70.42	75.72	78.42	79.55	79.16	76.79	70.27	60.25	44.24
1500.0	91.91	88.51	85.3	63.75	70.00	75.10	78.02	79.73	79.49	76.11	69.80	59.41	43.85
1505.7	91.41	88.01	84.7	64.23	70.64	76.00	77.74	79.12	78.18	75.74	69.27	59.25	43.24
1523.1	90.71	87.31	84.1	62.70	68.48	74.00	76.40	77.64	77.74	75.15	68.54	58.49	42.33
1552.9	90.01	86.61	83.4	62.02	68.14	74.10	75.47	77.04	77.04	74.44	67.40	57.62	41.20
1554.3	89.71	86.01	82.9	61.14	67.02	73.24	75.37	77.06	77.27	74.40	66.48	56.44	39.64
1655.1	88.11	84.91	81.9	60.44	66.66	72.15	74.18	76.76	75.39	72.49	65.02	55.11	37.08

RUN NUMBER	237.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	9.000
PRIMARY TEMPERATURE (IN)	514.000
SECONDARY TEMPERATURE (IN)	572.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	4.856
VELOCITY RATIO	0.374
PRIMARY VELOCITY (FT/SEC)	1109.614
MASS FLOW RATIO	1.544
PRIMARY MASS FLOW (LB/SEC)	0.344
THRUST (LBS)	20.814
ENVIRONMENTAL TEMPERATURE (IN)	515.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	73.000
CALIBRATION FACTOR (MV TO CY/50 CM)	0.025
INSTRUMENTATION NOISE FLOOR (DB)	57.007

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	9.43013E-01	129.7	THRUST	POWER LEVEL (DB)
500	9.08919E-03	109.6	10000	156.6
1000	8.61029E-02	119.4	20000	159.6
2000	1.42723E-01	121.5	40000	162.6
4000	2.18309E-01	123.4	80000	165.6
8000	2.02829E-01	123.1		
16000	1.27433E-01	121.1		
31500	1.56128E-01	121.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.2	97.4	100.8	99.0	93.9	92.8	102.3	106.9
20.0	88.5	96.3	101.0	100.8	96.5	92.1	86.4	105.6
25.0	87.1	94.4	100.2	101.5	98.1	92.4	87.2	105.6
30.0	85.1	92.5	98.7	101.0	99.0	93.7	88.4	105.2
35.0	83.2	89.9	96.2	99.4	99.1	95.0	90.3	104.2
40.0	80.7	86.1	93.7	97.2	98.0	95.3	91.7	102.9
45.0	79.1	86.3	91.5	94.6	94.3	94.6	92.2	101.2
50.0	78.0	84.5	89.9	93.2	94.9	94.1	93.6	100.4
55.0	77.3	83.9	88.4	92.1	93.7	93.0	94.0	99.8
60.0	76.8	83.5	88.2	90.9	92.6	92.3	93.7	99.0
65.0	77.6	82.9	87.6	90.2	91.8	91.7	93.5	98.5
70.0	76.8	82.6	87.6	89.3	91.0	91.1	93.3	98.0
75.0	76.3	90.0	86.4	89.2	90.7	90.5	92.8	101.3
80.0	76.0	81.0	85.9	88.5	90.3	90.0	92.0	97.0
85.0	75.8	81.3	85.7	88.1	90.4	89.5	91.5	96.6
90.0	75.5	80.6	85.1	87.3	90.2	89.0	91.0	96.1
95.0	75.1	79.9	84.3	86.9	89.7	88.5	90.5	95.6
100.0	74.7	79.3	84.0	86.3	89.2	88.0	90.0	95.1
105.0	73.6	78.2	83.4	85.6	88.5	87.8	89.8	94.7
110.0	73.2	78.7	82.9	85.4	87.9	87.2	89.5	94.3
115.0	73.4	78.2	82.5	84.9	87.9	87.0	89.0	94.0

MODEL THRUST = 20.914 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 16.1	BAND 32.3	SOUND 64.5	PRESSURE 129.1	LEVELS 258.1	516.2	1032.3	2064.6	4032.9	8065.7	16131.5
5795.6	81.51 79.91	80.3	65.31	72.50	75.79	74.64	67.93	64.99	69.47	55.23	29.27	-17.34	-94.64
4384.7	82.51 81.71	82.8	66.05	73.40	78.40	78.10	73.21	67.32	58.16	48.65	26.28	-9.73	-88.95
3549.3	85.51 84.41	84.7	66.46	73.74	74.47	80.71	76.80	69.95	61.72	51.44	39.78	5.07	-43.43
3000.0	87.71 86.41	85.7	65.91	73.32	74.48	81.04	70.25	72.97	65.13	50.32	41.43	15.04	-25.60
2615.2	89.21 87.51	85.0	65.28	71.44	78.21	81.29	88.70	75.70	68.79	60.72	47.36	24.64	-11.45
2333.6	87.81 87.61	85.4	63.74	71.12	70.72	80.12	90.57	77.13	71.51	63.49	51.74	31.18	-1.73
2121.3	89.61 87.01	84.6	62.91	70.12	75.34	78.33	79.77	77.30	72.14	69.03	54.63	35.68	5.47
1954.1	90.21 86.41	84.4	62.56	69.01	74.41	77.62	74.07	77.60	75.52	68.72	57.96	40.23	12.13
1831.7	90.41 86.71	84.3	62.43	69.22	73.97	77.15	74.54	77.15	76.61	70.08	59.01	43.63	16.55
1732.1	90.81 86.51	84.0	62.45	69.12	73.42	76.39	77.85	76.96	74.97	70.61	60.75	44.71	19.51
1655.1	91.11 86.41	83.7	63.60	68.47	73.49	74.10	77.44	74.25	77.28	71.97	61.51	45.04	21.94
1596.3	91.11 86.51	83.7	63.16	68.43	73.29	75.54	76.68	75.61	77.40	71.30	61.98	46.97	23.50
1552.9	91.91 87.51	87.6	62.91	65.44	72.93	74.49	74.93	76.25	77.24	71.23	62.09	47.39	24.44
1523.1	91.61 85.41	83.1	62.74	65.43	72.44	75.11	76.40	75.91	74.66	70.70	61.67	47.21	24.64
1505.7	90.31 85.51	82.9	62.66	64.14	72.55	74.43	76.44	75.51	74.26	70.34	61.37	47.04	24.74
1500.0	89.41 85.01	82.5	62.33	67.44	71.45	74.05	76.41	75.07	75.79	69.88	60.94	46.05	24.43
1505.7	87.21 86.51	81.9	61.92	64.74	71.45	73.49	74.25	74.42	75.27	62.35	60.39	46.05	23.72
1523.1	88.61 83.81	81.3	61.43	60.41	70.74	74.44	75.43	73.43	76.64	69.68	59.65	45.19	22.66
1552.9	87.41 83.31	81.7	60.19	64.73	69.49	74.14	74.76	73.54	74.25	67.24	59.09	44.40	21.50
1596.3	87.21 82.61	80.0	59.48	64.47	64.14	71.49	73.97	72.45	73.55	67.46	58.23	43.22	19.74
1655.1	80.31 81.41	74.3	54.40	54.24	68.45	74.41	73.45	72.10	72.74	65.54	56.99	41.53	17.31

RUN NUMBER	234,000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INCH)	2.810
PRIMARY TEMPERATURE (K)	507.000
SECONDARY TEMPERATURE (K)	523.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	4.856
VELOCITY RATIO	0.724
PRIMARY VELOCITY (FT/SEC)	1126.804
MASS FLOW RATIO	3.233
PRIMARY MASS FLOW (LB/SEC)	3.360
THRUST (LBS)	42.005
ENVIRONMENTAL TEMPERATURE (K)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.440
ENVIRONMENTAL HUMIDITY (PER CENT)	64.000
CALIBRATION FACTOR (MV TO OY/50 CM)	0.032
INSTRUMENTATION NOISE FLOOR (DB)	52.273

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.25002E+00	131.0	THRUST	POWER LEVEL (DB)
500	3.61030E-02	115.6	10000	154.7
1000	1.37625E-01	121.4	20000	157.7
2000	3.19454E-01	125.0	40000	160.7
4000	3.14363E-01	125.0	80000	163.8
8000	2.32197E-01	123.7		
16000	1.26281E-01	121.1		
31500	8.16860E-02	119.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	8000	16000	31500	ALL
15.0	96.4	101.9	102.6	97.3	93.6	91.0	87.1	106.7
20.0	95.0	100.7	103.2	98.9	92.4	90.2	86.9	106.7
25.0	93.4	99.7	102.7	100.4	94.7	89.9	86.4	106.6
30.0	91.1	97.5	101.7	101.0	95.6	91.3	87.6	106.1
35.0	89.0	95.1	100.2	100.4	97.7	92.7	88.8	105.3
40.0	86.6	93.1	97.9	99.1	97.9	93.9	89.7	104.2
45.0	85.2	91.3	96.6	97.6	97.3	94.2	91.0	103.3
50.0	83.8	90.2	94.7	96.4	96.3	93.8	91.2	102.2
55.0	83.5	89.3	94.1	95.6	95.5	93.1	91.4	101.5
60.0	83.4	88.6	93.3	94.9	94.9	92.7	91.5	101.0
65.0	83.1	88.6	92.5	94.4	94.2	92.4	91.0	100.4
70.0	82.8	87.8	92.2	93.7	93.5	91.0	90.5	99.6
75.0	82.1	87.2	91.0	93.2	91.1	91.5	90.0	99.4
80.0	81.8	86.6	91.4	92.6	92.8	91.2	89.5	98.9
85.0	81.1	86.0	90.7	92.2	92.4	90.5	89.2	98.5
90.0	80.4	85.6	90.1	91.0	92.1	90.2	89.0	98.2
95.0	80.1	84.9	89.7	91.6	91.2	90.0	88.9	97.8
100.0	79.8	84.8	89.5	91.1	91.6	90.9	89.5	97.6
105.0	79.0	84.0	89.6	91.0	91.3	90.5	89.2	97.3
110.0	78.3	83.5	89.1	90.7	91.1	89.3	88.0	97.0
115.0	78.1	82.7	88.7	90.6	91.1	89.0	87.9	96.9

MODEL THRUST = 42.095 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE		BAND	SOUND			PRESSURE		LEVELS			
			22.0	45.9	91.4	133.5	157.0	174.0	144.1	2890.3	5734.7	11469.6	22938.7	
8795.6	75.61	75.21	78.4	68.47	73.99	74.48	68.74	60.76	57.94	46.59	27.11	-7.95	-68.85	-145.43
8385.7	79.71	79.11	80.9	69.48	75.16	77.40	72.92	65.48	60.80	51.86	36.39	9.13	-37.69	-111.50
3549.3	82.91	82.31	82.6	69.71	76.25	78.91	74.49	69.91	63.06	55.08	41.99	19.35	-19.11	-79.41
3680.0	85.11	84.31	83.5	68.89	75.28	79.34	74.49	71.40	66.50	58.47	47.33	27.74	-5.23	-50.67
2615.7	86.51	85.41	83.0	67.93	74.68	79.05	74.11	70.02	69.43	62.15	51.71	34.24	5.12	-40.11
2333.4	87.51	86.31	83.6	66.56	73.00	77.41	72.50	71.10	64.62	54.98	39.07	12.76	-27.92	
2121.3	89.21	88.61	83.5	66.00	72.08	76.40	71.19	70.4	67.12	67.24	58.20	43.47	19.27	-12.98
1958.1	88.31	88.51	83.0	65.31	71.44	76.17	71.60	71.15	73.54	64.48	59.91	46.88	23.51	-11.10
1831.2	89.51	88.51	83.0	65.53	71.31	76.07	71.50	71.02	73.61	69.86	61.25	48.12	26.83	-5.74
1732.1	88.71	86.51	82.9	65.92	71.17	75.95	71.35	70.88	73.74	70.36	62.42	49.84	29.53	-1.43
1655.1	88.01	86.31	82.7	66.03	71.51	75.54	71.32	70.69	73.40	70.74	62.63	50.47	30.94	1.22
1596.3	88.41	86.11	82.5	66.05	71.03	75.40	71.01	70.12	73.72	70.31	62.77	50.94	31.99	3.22
1552.0	88.31	85.91	82.3	65.56	70.86	75.23	70.50	70.12	73.44	70.15	62.73	51.14	32.62	4.55
1523.1	89.61	85.81	82.0	65.51	70.30	75.01	70.57	70.45	73.36	69.85	62.52	51.09	32.88	5.29
1505.7	87.71	85.31	81.7	64.91	69.76	74.82	70.04	70.04	72.47	69.67	62.39	51.06	33.02	5.71
1500.0	87.51	85.01	81.4	64.19	69.43	73.01	70.04	70.14	72.71	69.56	62.29	50.99	33.01	5.79
1505.7	87.11	84.71	81.0	63.29	68.64	71.44	70.17	70.04	72.53	69.43	62.15	50.82	33.77	5.44
1523.1	86.71	84.31	80.6	63.51	68.41	70.15	70.32	70.06	72.25	68.87	61.54	50.11	31.88	4.35
1552.9	85.31	83.91	80.2	62.66	67.44	71.11	70.11	70.11	71.61	68.37	60.95	49.36	30.85	2.78
1506.3	85.71	83.31	79.6	61.50	66.73	70.04	70.04	70.04	71.14	67.76	60.22	48.39	29.45	0.67
1655.1	85.21	82.91	79.1	61.09	65.60	71.00	70.01	70.02	70.40	67.23	59.52	47.37	27.83	-1.89

BIOMETER	200.000
AIRAL POSITION IN PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	525.000
SECONDARY TEMPERATURE (IN)	530.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	0.744
VELOCITY RATIO	0.374
PRIMARY VELOCITY (FT/SEC)	1207.692
MASS FLOW RATIO	2.441
PRIMARY MASS FLOW (LB/SEC)	0.394
THRUST (LBS)	28.734
ENVIRONMENTAL TEMPERATURE (RI)	525.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.450
ENVIRONMENTAL HUMIDITY (PER CENT)	63.500
CALIBRATION FACTOR (MV TO DY/50 CH)	0.040
INSTRUMENTATION NOISE FLOOR (DB)	61.577

JUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.90455E+00	132.8	THRUST	POWER LEVEL (DB)
500	6.28113E-03	108.0	10000	158.2
1000	3.29307E-02	115.2	20000	161.2
2000	1.44140E-01	121.6	40000	164.2
4000	3.45419E-01	126.0	80000	167.2
8000	5.81216E-01	127.6		
16000	4.59226E-01	126.6		
31500	2.86340E-01	124.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	8000	16000	31500	ALL
15.0	87.7	95.0	99.5	100.3	96.2	95.2	91.2	105.4
20.0	85.7	94.0	100.6	103.2	104.0	98.7	95.2	108.5
25.0	84.9	93.3	100.2	104.8	103.9	104.7	97.8	110.1
30.0	83.1	91.4	98.7	104.4	105.6	102.8	94.9	110.0
35.0	81.8	89.7	96.9	102.6	104.4	102.7	99.9	109.2
40.0	80.5	87.2	94.4	100.2	103.4	102.3	99.0	107.8
45.0	78.7	85.6	92.3	97.5	100.6	100.0	97.9	105.5
50.0	77.8	84.0	90.6	95.4	98.4	98.4	97.6	104.0
55.0	77.1	83.3	89.5	93.7	96.8	97.1	97.0	102.7
60.0	76.9	82.9	88.7	93.0	95.9	96.2	94.3	101.8
65.0	76.9	82.6	88.2	92.4	94.8	94.9	95.1	100.8
70.0	75.0	81.8	87.6	91.3	93.9	94.5	93.5	100.1
75.0	75.0	81.5	87.0	90.6	92.8	93.3	93.5	99.1
80.0	75.2	81.0	86.3	89.7	92.1	92.5	92.5	98.3
85.0	74.6	80.6	85.7	89.2	91.7	92.0	92.0	97.8
90.0	74.3	80.3	85.6	88.4	91.0	91.5	91.5	97.3
95.0	74.3	79.8	84.6	88.3	90.5	91.0	91.0	96.7
100.0	73.6	79.2	84.5	87.5	90.2	90.5	90.5	96.3
105.0	72.4	78.5	83.3	86.7	90.1	90.0	90.0	95.8
110.0	72.0	78.3	83.2	86.5	89.6	89.5	89.5	95.3
115.0	71.6	76.9	83.1	85.7	88.7	89.0	89.0	94.7

MODEL THRUST = 28.738 FULL SCALE THRUST = 20000.000

L.	PNOM.	OASPL	19.0	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	19.0	37.9	75.4	151.4	303.2	606.5	1194.0	2388.1	4730.3	9476.5	18953.1
8795.6	78.91 (78.3)	78.2	61.37	68.45	73.13	73.53	70.55	65.03	55.15	38.72	8.88	-43.93	-129.79						
4366.7	46.71 (45.8)	43.7	61.87	70.07	76.64	74.32	70.10	71.89	63.87	50.71	27.40	-13.30	-79.00						
3549.3	40.61 (39.4)	41.0	62.87	71.27	78.13	82.44	81.04	80.31	69.82	58.59	39.15	5.65	-48.10						
3080.0	43.01 (41.5)	40.5	62.58	70.76	77.07	83.54	84.28	80.22	73.29	63.34	46.45	17.66	-28.23						
2619.7	44.11 (42.1)	40.8	62.48	70.24	77.44	83.84	84.84	81.58	76.13	67.07	51.94	24.48	-13.91						
2333.6	44.01 (41.9)	41.5	62.11	68.56	76.34	81.06	85.49	82.31	76.67	68.26	54.45	31.39	-4.47						
2121.3	42.91 (40.3)	40.9	61.12	68.02	74.46	79.74	82.53	80.94	76.78	68.06	56.04	34.81	1.44						
1950.1	42.41 (39.5)	40.1	60.97	67.14	73.71	78.43	81.23	80.41	77.45	64.91	57.84	38.01	7.02						
1831.2	42.11 (38.8)	40.4	60.85	67.00	73.14	77.32	80.05	79.60	77.65	70.41	58.93	40.19	11.01						
1732.1	42.01 (41.5)	40.1	61.09	67.09	72.49	77.10	74.62	79.21	77.54	70.52	59.50	41.61	13.85						
1659.1	41.61 (41.0)	40.5	61.49	67.22	72.42	76.92	74.43	76.91	70.88	58.41	42.19	15.53							
1592.3	41.41 (40.6)	40.2	60.75	66.96	72.47	76.15	74.47	78.33	76.75	70.05	58.65	42.93	17.11						
1552.9	40.71 (40.8)	43.4	60.99	64.92	72.09	75.44	77.60	77.42	76.02	69.42	59.72	42.84	17.68						
1522.1	40.11 (40.1)	42.8	60.58	66.31	71.46	74.44	77.10	76.43	75.26	68.73	54.67	42.58	17.41						
1505.7	40.71 (40.7)	42.4	60.05	64.07	71.04	74.52	76.76	76.48	74.49	68.40	54.43	42.44	17.06						
1500.0	40.21 (40.2)	42.0	59.76	65.74	70.44	74.14	76.15	75.93	74.41	67.93	57.98	42.69	17.65						
1505.7	40.71 (40.7)	41.4	59.73	64.17	70.44	73.60	75.45	74.43	73.44	67.39	57.42	41.44	16.45						
1523.1	40.31 (40.1)	40.5	58.43	64.43	70.44	72.72	75.14	74.42	73.25	66.72	56.47	40.57	15.40						
1522.9	40.71 (40.3)	40.2	57.40	63.44	69.47	71.74	74.41	74.14	72.49	65.49	55.70	39.35	14.14						
1524.3	40.41 (40.4)	40.5	56.44	61.44	67.44	71.74	74.12	73.36	71.71	65.01	54.61	37.99	12.07						
1559.1	40.11 (41.0)	42.4	56.18	61.47	67.44	71.17	72.44	72.10	71.79	63.95	53.29	36.88	9.46						

WIND TUNNEL	241.000
AXIAL POSITION OF PRIMARY AND SECONDARY (INCH)	4.000
PRIMARY TEMPERATURE (IN)	525.000
SECONDARY TEMPERATURE (IN)	537.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	9.749
VELOCITY RATIO	.725
PRIMARY VELOCITY (FT/SEC)	1207.642
MASS FLOW RATIO	5.307
PRIMARY MASS FLOW (LB/SEC)	1.397
THRUST (LBS)	72.142
ENVIRONMENTAL TEMPERATURE (IN)	525.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.450
ENVIRONMENTAL HUMIDITY (PER CENT)	66.000
CALIBRATION FACTOR (IN TO 0.750 CM)	.056
INSTRUMENTATION NOISE FLOOR (DB)	64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.38716E+00	136.4	THRUST	POWER LEVEL (DB)
500	6.65580E-02	118.2	10000	157.8
1000	2.63694E-01	124.2	20000	160.9
2000	6.80227E-01	128.3	40000	163.9
4000	9.59233E-01	129.8	80000	166.9
8000	1.11251E+00	130.5		
16000	7.69136E-01	124.9		
31500	5.35117E-01	127.3		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	OCTAVE BAND 2000	OCTAVE BAND 4000	OCTAVE BAND 8000	OCTAVE BAND 16000	31500	OVER ALL
15.0	97.9	102.8	103.5	101.7	103.0	98.6	92.3	109.0
20.0	96.9	102.7	104.9	103.7	102.4	99.4	95.4	110.3
25.0	95.5	101.7	105.7	105.4	104.2	101.1	97.1	111.3
30.0	94.0	100.5	105.0	106.0	105.8	102.6	98.5	111.9
35.0	92.3	99.1	104.1	106.0	107.6	104.5	100.3	112.5
40.0	90.1	96.9	101.7	104.0	106.4	104.1	100.4	111.1
45.0	89.0	95.6	100.3	102.8	104.5	103.1	100.3	109.7
50.0	88.0	93.9	99.4	101.4	103.2	101.9	100.1	108.6
55.0	86.6	93.0	98.2	100.3	101.6	100.5	99.8	107.4
60.0	86.7	92.5	97.2	99.2	100.3	99.5	99.4	106.5
65.0	86.0	92.0	96.7	98.5	99.4	98.6	99.4	105.7
70.0	85.8	91.4	95.8	97.8	98.4	98.0	98.3	104.9
75.0	85.7	90.6	95.4	97.3	97.7	97.5	97.5	104.4
80.0	85.1	90.1	94.6	96.6	96.9	96.9	96.9	103.7
85.0	84.6	89.9	94.3	95.9	95.3	96.0	96.0	103.0
90.0	84.4	89.3	93.9	95.4	95.7	95.8	95.8	102.6
95.0	83.7	89.0	93.7	94.8	95.4	95.5	95.5	102.3
100.0	83.0	88.7	93.6	94.5	95.0	95.4	95.4	102.1
105.0	82.5	88.0	93.1	94.1	94.9	95.2	95.2	101.8
110.0	81.7	87.4	92.7	93.8	94.9	95.1	95.1	101.6
115.0	80.6	86.2	92.3	93.5	95.1	95.0	95.0	101.5

MODEL THRUST = 72.142 FULL SCALE THRUST = 20000.000

L.	PMDB.	OASPL	OCTAVE BAND 30.0	OCTAVE BAND 60.1	OCTAVE BAND 120.1	OCTAVE BAND 240.2	OCTAVE BAND 480.5	OCTAVE BAND 960.9	OCTAVE BAND 1891.9	OCTAVE BAND 3783.7	OCTAVE BAND 7567.4	OCTAVE BAND 15134.8	OCTAVE BAND 30269.6
8795.6	70.1 (70.0)	77.8	67.56	72.44	72.90	70.49	66.97	58.99	44.46	19.73	-23.96	-97.61	-210.16
8385.7	83.6 (83.2)	81.5	69.03	74.61	76.78	75.15	72.49	66.01	54.23	34.74	1.00	-55.46	-141.37
3949.3	87.5 (87.0)	84.3	69.43	75.68	79.53	78.94	76.40	70.42	60.37	44.07	16.15	-30.12	-100.21
3080.0	88.5 (88.8)	86.3	69.40	75.92	80.27	81.59	79.81	74.23	64.87	50.62	26.56	-13.01	-72.72
2615.2	93.3 (92.4)	97.9	68.93	75.71	80.58	82.83	82.95	77.85	64.99	56.19	34.83	-0.05	-52.49
2333.6	93.5 (92.4)	87.4	67.69	74.49	79.24	81.88	82.88	78.76	70.89	59.24	39.46	8.41	-30.70
2121.3	93.2 (91.9)	86.8	67.66	74.04	78.60	80.89	81.95	78.83	72.30	61.35	43.46	14.80	-24.50
1958.1	93.1 (91.5)	86.4	67.14	73.03	76.41	80.27	81.37	78.61	73.33	62.99	46.25	15.30	-20.64
1831.2	92.9 (91.3)	85.8	66.35	72.74	77.79	79.71	80.50	77.92	74.01	64.15	48.29	22.97	-14.65
1722.1	93.0 (91.2)	85.3	66.55	72.69	77.37	78.14	79.65	77.52	74.41	64.92	49.74	25.64	-10.10
1655.1	92.9 (91.0)	85.0	66.64	72.67	77.27	78.41	79.26	77.13	74.40	65.20	50.54	27.40	-6.84
1594.3	92.5 (90.7)	84.6	66.71	72.35	76.60	78.42	78.58	76.49	74.10	65.12	50.91	24.45	-4.72
1552.0	92.4 (90.4)	84.3	66.82	71.77	76.46	78.19	78.16	76.64	73.44	65.12	51.22	20.29	-3.07
1523.1	92.0 (90.0)	83.8	66.46	71.41	75.85	77.70	77.46	76.32	73.43	64.92	51.23	20.66	-2.13
1505.7	91.3 (89.3)	83.3	65.86	71.35	75.42	77.68	77.02	75.51	72.80	64.21	50.64	20.29	-2.10
1500.6	91.1 (89.1)	82.4	65.86	70.74	75.30	76.42	76.42	75.34	72.71	64.09	50.55	20.27	-2.09
1505.7	90.7 (88.7)	82.5	65.49	70.34	75.03	76.41	76.13	75.10	72.39	63.74	50.17	20.22	-2.45
1523.1	90.3 (88.4)	82.2	66.32	70.00	74.51	75.35	75.64	74.42	72.10	63.33	49.69	20.12	-3.67
1552.0	89.8 (87.8)	81.7	63.41	69.14	74.20	75.06	75.30	74.37	71.62	62.00	48.90	24.97	-5.39
1594.3	89.3 (87.4)	81.2	62.80	68.25	73.57	74.42	75.04	74.02	71.18	62.20	47.09	24.53	-7.64
1655.1	88.7 (86.8)	80.6	61.21	66.75	72.83	73.47	74.91	73.51	70.67	61.41	46.79	21.62	-10.67

RUN NUMBER	245.668
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	223.000
SECONDARY TEMPERATURE (R)	325.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	1.000
VELOCITY RATIO	0.345
PRIMARY VELOCITY (FT/SEC)	1377.672
MASS FLOW RATIO	0.269
PRIMARY MASS FLOW (LB/SEC)	0.22
THRUST (LBS)	19.763
ENVIRONMENTAL TEMPERATURE (R)	16.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.500
ENVIRONMENTAL HUMIDITY (PER CENT)	69.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	0.071
INSTRUMENTATION NOISE FLOOR (DB)	46.500

NET POWER AND SOUND POWER LEVEL FOR MODEL JET

Approximate Overall Power Level (dB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
139	THRUST	Approximate Power Level (dB)
	10000	164
	20000	167
	40000	170
	80000	173

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	6000	16000	31500	OVER ALL
15.0	91.8	101.0	107.5	109.9	109.0	101.9	93.6	114.2
20.0	90.7	100.4	107.1	110.5	109.1	102.3	94.8	114.6
25.0	89.3	99.3	107.6	110.7	109.1	102.4	95.8	114.6
30.0	87.9	97.4	106.5	110.2	109.7	102.6	97.0	114.0
35.0	86.1	95.0	104.3	108.8	109.0	102.4	97.5	112.9
40.0	83.3	92.9	101.4	106.3	106.9	103.2	98.4	111.3
45.0	81.4	90.1	98.4	103.2	105.0	102.5	98.4	109.3
50.0	79.6	88.3	96.1	101.1	103.3	101.6	98.2	107.8
55.0	79.3	87.1	94.4	99.0	101.3	100.2	98.2	106.2
60.0	78.2	86.6	93.9	97.8	100.4	99.5	97.4	105.6
65.0	76.6	86.5	92.8	96.8	99.4	98.7	97.3	104.6
70.0	74.5	86.0	92.5	96.4	98.5	98.1	97.1	104.0
75.0	77.4	85.3	91.7	95.5	98.0	97.6	96.5	103.4
80.0	77.4	84.9	91.5	95.1	97.5	97.0	95.9	102.9
85.0	77.0	84.6	90.3	94.2	97.0	96.5	95.1	102.2
90.0	77.0	83.8	90.0	93.9	96.6	96.0	94.9	101.9
95.0	76.6	83.3	89.3	93.6	96.6	95.9	94.2	101.6
100.0	76.1	83.1	88.9	93.0	95.9	95.6	93.9	101.1
105.0	75.6	82.4	88.5	92.3	95.7	95.3	93.5	100.8
110.0	75.1	81.9	87.6	92.0	95.5	95.0	93.0	100.4
115.0	73.9	81.0	87.5	91.6	95.5	94.8	92.5	100.2

MODEL THRUST = 19.763 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	15.7	OCTAVE BAND 31.5	62.9	SOUND PRESSURE LEVELS 125.7	251.5	503.0	990.2	1980.4	3960.4	7949.8	15717.6
15.0	90.81	99.51	89.0	67.17	76.37	82.73	84.90	83.32	74.31	61.25	47.33	21.96	-23.71
15.7	93.41	92.61	91.9	68.50	74.20	85.81	88.03	86.12	77.79	66.75	55.49	35.45	-27.94
16.3	95.81	94.61	93.8	69.88	74.91	87.17	90.12	84.05	80.16	70.67	60.99	44.28	-22.53
16.9	97.21	95.91	94.7	68.97	74.45	87.48	91.09	84.24	82.13	74.11	65.46	50.88	-16.97
17.5	98.61	96.61	96.7	68.15	77.22	86.52	90.88	84.81	83.71	74.31	68.39	55.29	-7.69
18.2	98.11	96.31	96.1	66.51	76.18	84.53	88.81	80.71	85.25	78.53	71.13	58.12	-6.56
18.8	97.81	95.41	92.8	65.45	74.16	82.44	87.13	84.66	84.46	79.64	72.64	61.45	42.83
19.4	97.41	94.61	92.0	64.40	73.04	80.89	85.79	87.72	85.38	80.36	73.67	63.11	44.69
20.0	96.41	93.71	91.0	64.66	72.41	79.77	84.70	86.33	84.61	81.11	74.66	64.59	48.11
20.6	96.71	93.51	90.7	64.67	72.45	79.75	83.59	84.96	84.44	80.94	74.73	65.84	49.29
21.2	96.61	93.11	90.3	64.44	72.69	79.65	82.94	85.15	84.10	81.35	75.23	65.84	49.65
21.8	96.51	92.91	90.1	65.15	72.51	79.62	82.76	84.80	83.82	81.52	75.52	66.35	51.60
22.4	96.21	92.61	89.7	64.23	72.09	78.45	82.22	84.52	83.57	81.22	75.30	66.30	51.87
23.0	95.91	92.21	89.4	64.48	71.89	78.62	81.44	84.14	83.16	80.87	75.00	66.12	51.91
23.6	95.31	91.71	88.8	64.09	71.62	77.14	81.14	83.82	82.76	80.12	74.29	65.67	51.39
24.2	95.01	91.31	88.5	64.11	70.84	77.07	80.87	83.66	82.33	79.64	74.15	65.36	51.32
24.8	94.41	90.71	88.2	63.63	70.37	76.31	80.44	83.17	82.16	79.24	73.82	64.61	50.52
25.4	94.11	90.51	87.6	63.66	70.65	76.42	80.44	82.55	81.16	78.83	72.86	64.68	49.44
26.0	93.51	90.01	87.1	62.40	69.16	75.24	79.64	82.14	81.24	78.19	72.26	63.27	48.44
26.6	92.91	89.31	86.5	61.43	68.61	74.14	78.44	81.74	80.72	77.44	71.43	62.27	47.92
27.2	92.11	88.71	85.9	60.14	67.27	72.67	77.70	81.44	80.22	76.97	70.46	61.27	46.44

ENGINE NUMBER	244-000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	9.0000
PRIMARY TEMPERATURE (IN)	527.000
SECONDARY TEMPERATURE (IN)	527.000
PRIMARY PRESSURE (PSI)	3.500
AREA RATIO	1.900
VELOCITY RATIO	0.673
PRIMARY VELOCITY (FT/SEC)	1342.930
MASS FLOW RATIO	0.591
PRIMARY MASS FLOW (LBM/SEC)	0.422
THRUST (LBS)	25.322
ENVIRONMENTAL TEMPERATURE (IN)	515.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	69.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	0.056
INSTRUMENTATION NOISE FLOOR (DB)	64.590

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.70430E+00	135.7	THRUST	POWER LEVEL (DB)
500	2.41276E-02	113.8	10000	161.7
1000	1.56437E-01	121.9	20000	164.7
2000	6.76280E-01	128.3	40000	167.7
4000	1.13449E+00	130.5	80000	170.7
8000	9.71192E-01	129.9		
16000	4.80525E-01	126.6		
31500	2.61253E-01	124.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
	500	1000	2000	4000	8000	16000	31500	ALL
15.0	94.1	102.3	107.1	106.5	101.8	95.6	91.4	111.4
20.0	93.4	102.2	107.6	107.9	103.7	95.6	91.2	112.2
25.0	91.7	100.6	107.4	108.4	104.9	96.7	91.7	112.4
30.0	89.9	98.5	106.2	108.5	105.8	98.7	93.3	112.3
35.0	88.1	96.2	103.8	107.3	106.0	100.0	94.4	111.3
40.0	85.9	93.8	101.0	105.1	105.2	101.0	95.7	109.9
45.0	83.0	91.4	98.2	102.4	103.7	101.0	95.7	108.2
50.0	81.9	89.3	95.8	100.2	102.1	100.0	96.6	106.6
55.0	80.6	88.4	95.0	98.8	100.0	99.2	96.6	105.6
60.0	80.6	87.7	93.9	97.5	99.4	98.5	96.3	104.6
65.0	80.6	87.2	93.2	96.5	98.6	97.6	96.1	103.8
70.0	80.6	86.9	92.5	95.8	97.9	97.2	95.9	103.3
75.0	79.6	86.7	91.4	95.1	96.9	96.2	95.1	102.5
80.0	79.4	85.6	91.1	94.5	96.5	96.0	94.7	102.0
85.0	78.8	85.1	90.7	93.9	96.1	95.5	94.2	101.5
90.0	78.3	84.6	90.2	93.5	95.6	95.0	93.8	101.1
95.0	78.0	84.3	89.4	92.7	95.1	94.6	93.2	100.5
100.0	77.6	83.8	89.2	92.4	94.6	94.1	92.9	100.1
105.0	77.0	83.3	88.7	91.8	94.4	93.4	92.3	99.7
110.0	77.0	82.6	87.9	91.4	93.9	93.5	92.0	99.3
115.0	76.2	81.8	87.4	90.9	93.9	93.1	91.7	99.0

MODEL THRUST = 25.322 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE		BAND	SOUND		PRESSURE		LEVELS			
			17.8	35.6	71.2	142.3	284.7	569.3	1120.8	2241.7	4447.8	8895.5	17791.1
8795.6	84.7 (84.2)	85.3	68.38	76.54	81.25	80.66	74.86	66.37	56.59	41.06	12.80	-37.51	-119.95
4305.7	84.7 (88.0)	88.6	70.10	78.83	84.19	84.32	79.47	69.66	61.10	48.61	26.50	-12.30	-75.42
3549.3	91.4 (90.6)	90.6	70.21	79.13	85.88	86.69	82.69	73.03	64.68	54.00	35.53	-3.56	-48.09
3000.0	93.8 (92.8)	91.9	69.91	78.52	86.11	88.30	85.15	76.81	68.65	59.16	43.09	15.60	-28.52
2615.2	95.1 (93.8)	92.1	69.28	77.33	84.93	88.28	86.59	79.55	71.53	62.87	48.47	24.12	-14.72
2333.6	95.6 (94.0)	91.5	68.08	75.97	83.11	87.08	86.83	81.76	74.26	66.21	53.04	30.99	-3.99
2121.3	95.6 (93.5)	90.6	65.99	74.44	81.18	85.25	86.27	82.66	76.43	68.85	56.60	36.28	4.21
1950.1	95.3 (92.9)	89.7	65.58	73.02	79.42	83.73	85.39	82.54	77.20	69.97	58.43	39.45	9.61
1831.2	95.1 (92.4)	89.3	65.11	72.67	79.21	82.92	84.64	82.37	78.04	71.08	60.18	42.15	14.05
1732.1	94.8 (91.8)	88.7	65.37	72.44	78.64	82.15	83.80	82.10	78.37	71.63	61.08	43.94	17.20
1655.1	94.6 (91.5)	88.4	65.76	72.39	78.31	81.50	83.38	81.73	78.63	72.05	61.84	45.33	12.64
1586.3	94.5 (91.3)	88.2	66.08	72.36	77.96	81.13	83.03	81.66	78.91	72.45	62.50	46.47	21.59
1552.9	94.0 (90.6)	87.6	65.35	72.36	77.55	80.72	82.32	80.96	78.39	72.03	62.26	46.58	22.30
1523.1	93.8 (90.4)	87.3	65.26	71.51	76.95	80.24	82.09	80.93	78.23	71.94	62.30	46.86	22.99
1505.7	93.4 (90.0)	87.0	64.82	71.05	76.63	79.80	81.77	80.53	77.81	71.56	61.99	46.70	23.68
1500.0	93.0 (89.5)	86.5	64.27	70.63	76.23	79.38	81.26	80.09	77.44	71.20	61.66	46.42	22.66
1505.7	92.4 (89.0)	85.9	63.93	70.29	75.34	78.56	80.75	79.68	76.79	70.53	60.97	45.68	22.84
1523.1	91.8 (89.4)	85.4	63.52	69.70	75.05	78.13	80.14	79.03	76.34	70.09	60.65	45.02	21.14
1552.9	91.2 (87.9)	84.8	62.68	69.02	74.36	77.41	79.73	78.57	75.59	69.23	59.47	43.79	19.50
1586.3	90.5 (87.2)	84.1	62.44	68.04	73.34	76.81	79.00	78.02	74.98	68.53	58.57	42.54	17.66
1655.1	89.7 (86.4)	83.5	61.40	66.92	72.54	75.95	78.67	77.22	74.26	67.68	57.47	40.96	15.27

RUN NUMBER	245.000
AXIAL POSITION OF PRIMARY VRT. SECONDARY (INS)	9.860
PRIMARY TEMPERATURE (R)	520.000
SECONDARY TEMPERATURE (R)	527.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	1.900
VELOCITY RATIO	.743
PRIMARY VELOCITY (FT/SEC)	1384.242
MASS FLOW RATIO	.699
PRIMARY MASS FLOW (LB/SEC)	.420
THRUST (LBS)	27.428
ENVIRONMENTAL TEMPERATURE (R)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	49.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.050
INSTRUMENTATION NOISE FLOOR (DB)	63.559

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	3.10929E+00	134.9	THRUST	POWER LEVEL (DB)
500	2.42205E-02	113.8	10000	100.5
1000	1.58669E-01	122.0	20000	103.6
2000	6.29891E-01	128.0	40000	106.6
4000	9.78890E-01	129.9	80000	109.6
8000	7.42567E-01	128.7		
16000	3.72216E-01	125.7		
31500	2.03036E-01	123.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.1	102.1	106.2	105.4	99.5	94.3	90.1	110.3
22.5	93.0	101.6	106.8	106.8	101.6	93.8	89.7	111.1
25.0	92.1	100.9	107.2	107.6	102.8	94.6	90.6	111.7
30.0	89.8	99.2	105.9	107.7	104.6	97.1	92.3	111.5
35.0	88.2	96.8	104.0	107.0	104.7	98.5	93.5	110.8
40.0	86.0	94.1	100.9	104.8	104.3	99.7	94.8	109.3
45.0	82.8	91.1	98.5	102.2	102.0	99.9	95.6	107.6
50.0	81.4	89.1	96.0	100.0	101.2	99.2	95.7	106.0
55.0	81.4	88.4	94.6	98.3	99.9	98.5	95.9	105.0
60.0	80.4	87.7	93.3	97.0	98.7	97.5	95.3	103.8
65.0	80.2	87.6	92.6	96.0	97.4	96.6	95.2	103.0
70.0	80.4	87.0	92.2	95.1	96.7	96.0	94.5	102.3
75.0	80.0	86.2	91.7	94.6	96.0	95.2	94.0	101.6
80.0	80.0	85.9	90.8	93.7	95.1	94.9	93.5	101.0
85.0	78.9	85.4	90.5	93.3	95.0	94.2	93.0	100.6
90.0	78.6	84.6	89.7	92.8	94.4	93.8	92.5	100.1
95.0	78.1	84.3	89.3	92.4	94.2	93.3	92.0	99.7
100.0	77.8	83.6	88.8	91.8	93.5	93.0	91.5	99.1
105.0	77.2	83.1	88.4	91.4	93.4	92.9	91.0	98.9
110.0	76.6	82.5	88.0	90.8	93.1	92.5	90.8	98.5
115.0	76.6	82.3	87.4	90.6	93.0	92.5	90.3	98.3

MODEL THRUST = 27.428 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
			18.5	37.0	74.1	140.1	296.3	592.5	1166.5	2333.0	4629.1	9258.1	18516.2
1995.6	83.01	82.51	83.8	68.05	75.98	80.09	78.88	72.09	64.43	54.50	38.40	9.16	-42.72 -127.31
1985.7	87.01	86.41	87.1	69.38	77.92	83.07	82.79	76.91	67.28	58.89	45.98	23.12	-16.88 -81.62
1949.3	90.11	89.31	89.6	70.30	79.67	85.29	85.51	80.16	70.44	63.60	51.90	32.91	-10.3 -52.99
1900.0	92.51	91.51	90.8	69.42	78.79	85.45	87.09	83.00	74.83	67.02	57.24	40.66	12.35 -32.88
1815.2	93.91	92.71	91.2	68.99	77.60	84.81	87.60	84.93	77.69	70.01	61.10	46.25	21.20 -14.62
1733.6	94.61	93.11	90.6	67.87	75.57	82.71	86.44	83.64	76.05	72.75	64.48	50.91	28.23 -7.62
1611.3	94.51	92.61	89.7	65.44	73.73	81.06	84.68	82.00	74.14	74.76	66.96	54.36	33.46 -6.0
1581.1	94.11	91.81	88.7	64.77	72.49	79.27	83.21	84.06	76.84	75.84	68.42	54.55	37.03 6.47
1531.2	94.01	91.41	88.2	63.35	72.32	78.53	82.11	83.43	76.29	76.87	69.73	58.44	39.99 11.22
1521.1	93.91	91.81	87.6	64.46	72.07	77.72	81.30	82.69	76.80	76.85	69.94	59.09	41.48 14.10
1485.1	93.21	93.21	87.1	65.05	72.37	77.42	80.67	81.80	76.39	77.31	70.57	60.07	43.11 16.71
1466.3	93.01	89.81	86.8	65.57	72.88	77.31	80.69	81.43	76.08	76.99	70.38	60.15	43.69 18.22
1422.9	92.61	89.41	86.4	65.38	71.57	77.02	79.80	80.97	75.53	76.81	70.30	60.26	44.17 19.30
1323.1	92.31	89.11	86.0	65.55	71.39	76.34	79.16	80.32	74.44	76.50	70.05	60.16	44.31 19.87
1305.7	91.91	88.61	85.6	64.49	71.01	76.06	78.80	80.28	73.86	76.15	69.74	59.92	44.22 20.03
1300.0	91.41	88.21	85.1	64.27	70.26	75.37	78.34	79.76	78.47	75.68	69.29	59.50	43.85 19.73
1205.7	91.01	87.81	84.8	63.71	69.95	74.49	77.91	79.51	77.98	75.19	68.79	58.97	43.27 19.08
1203.1	90.31	87.11	84.1	63.34	69.12	74.35	77.20	78.69	77.53	74.50	68.06	58.16	42.31 17.87
1152.9	89.81	86.71	83.6	62.59	68.44	73.70	76.44	77.28	73.78	73.78	67.27	57.24	41.14 16.28
1106.3	89.11	86.01	83.0	61.73	67.58	73.06	75.86	77.91	76.58	73.26	66.65	56.42	39.96 14.49
1055.1	88.51	85.51	82.4	61.52	67.09	72.21	75.25	77.48	76.23	72.61	65.67	55.18	38.22 11.92

NOISE NUMBER	246.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	9.4000
PRIMARY TEMPERATURE (IN)	515.000
SECONDARY TEMPERATURE (IN)	525.000
PRIMARY PRESSURE RATIO	3.500
VELOCITY RATIO	2.007
PRIMARY VELOCITY (FT/SEC)	6357
MASS FLOW RATIO	1367.000
PRIMARY MASS FLOW (LBS/SEC)	6507
THRUST (LBS)	425
ENVIRONMENTAL TEMPERATURE (IN)	21.310
ENVIRONMENTAL PRESSURE (IN.HG)	515.500
ENVIRONMENTAL HUMIDITY (PER CENT)	29.490
CALIBRATION FACTOR (FW TO GY/ST. CM)	70.510
INSTRUMENTATION NOISE FLOOR (DB)	0.003
	65.566

JETIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.10255E+00	136.1	THRUST	POWER LEVEL (DB)
500	1.25272E-02	111.0	10000	162.8
1000	8.94534E-02	119.5	20000	165.9
2000	5.30224E-01	127.2	40000	168.9
4000	1.17721E+00	130.7	80000	171.9
8000	1.22533E+00	130.7		
16000	6.88361E-01	126.4		
31500	3.79058E-01	125.8		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	91.0	99.8	106.2	108.8	103.9	97.2	91.9	111.2
20.0	90.2	99.6	106.7	108.8	106.7	99.7	93.5	112.8
25.0	88.7	98.2	106.2	109.3	107.8	101.9	95.8	113.3
30.0	87.1	96.2	105.2	109.0	108.0	102.6	97.4	113.1
35.0	84.5	94.0	102.9	107.1	106.7	102.2	97.2	111.5
40.0	82.7	91.1	100.0	105.1	106.2	103.1	99.0	110.6
45.0	80.6	88.2	96.7	102.1	104.3	102.6	98.4	108.7
50.0	79.5	86.6	94.5	99.4	102.3	101.6	98.9	107.1
55.0	78.3	85.6	93.1	97.8	100.7	100.4	98.2	105.8
60.0	76.3	85.5	92.5	96.7	99.5	99.2	97.5	104.7
65.0	77.6	85.0	91.9	95.6	98.4	98.1	97.0	103.8
70.0	77.9	84.8	91.3	95.0	97.4	97.3	96.6	103.1
75.0	77.6	84.3	90.8	94.5	96.8	96.9	96.0	102.6
80.0	77.9	84.1	90.2	94.3	96.5	96.6	96.0	102.3
85.0	77.2	83.6	89.5	93.6	96.1	96.5	95.9	102.0
90.0	76.4	83.0	89.2	92.8	95.5	96.0	95.0	101.3
95.0	76.0	82.7	88.6	92.2	94.9	95.5	94.0	100.7
100.0	75.6	81.9	87.7	91.9	94.5	95.0	93.8	100.3
105.0	74.6	81.9	87.0	91.5	94.1	94.5	93.0	99.8
110.0	74.6	81.5	86.9	91.0	93.6	94.0	92.5	99.3
115.0	73.5	80.3	86.8	90.4	93.3	93.5	92.0	98.8

MODEL THRUST = 21.310 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE 16.3	BAND 32.6	SOUND 65.3	PRESSURE 130.6	LEVELS 261.1	522.3	1023.2	2056.4	4080.2	8160.5	16321.0
795.6	85.71 (85.21)	85.7	65.99	74.79	81.12	81.47	77.87	69.07	58.84	44.45	38.22	-28.82	-106.72
385.7	91.01 (90.21)	89.8	67.68	77.04	84.11	83.95	83.36	74.79	64.87	53.20	32.53	-3.70	-63.38
1549.3	94.31 (93.21)	92.1	67.96	77.45	84.42	83.34	82.39	78.26	70.12	60.15	42.92	12.95	-35.92
1000.0	96.31 (95.01)	93.4	67.97	78.48	85.86	84.50	84.15	81.71	71.99	65.09	50.86	24.27	-17.50
615.2	98.61 (94.91)	93.0	68.57	75.47	84.74	84.47	84.17	82.70	74.52	67.38	53.30	31.03	-5.77
333.3	97.51 (95.51)	92.9	65.58	73.49	82.47	81.42	80.69	84.73	74.72	71.14	58.79	30.05	4.90
121.3	97.11 (94.61)	91.9	64.37	71.44	83.45	85.76	87.66	85.25	73.64	72.47	60.97	41.85	11.44
958.1	96.71 (93.81)	90.8	63.48	71.05	78.88	83.60	86.33	85.00	80.61	73.77	62.92	45.04	16.73
1831.2	96.31 (93.21)	90.1	63.31	70.43	74.67	82.68	85.39	84.41	80.72	74.12	63.79	46.87	20.20
1732.1	96.01 (92.61)	89.6	63.60	70.46	77.95	82.66	84.67	83.40	83.70	74.30	64.35	44.19	22.81
1655.1	95.41 (92.11)	89.1	63.50	70.47	77.79	81.90	84.03	83.11	82.57	74.32	64.59	49.11	24.77
1548.3	95.31 (91.71)	88.7	64.17	71.16	77.21	81.69	83.35	82.70	83.57	74.03	65.03	49.90	25.27
1552.9	95.11 (91.51)	88.5	64.05	70.75	77.20	80.44	83.02	82.53	82.30	74.25	65.03	50.23	27.16
1523.1	95.21 (91.41)	88.4	64.57	70.73	76.74	80.41	82.84	82.37	82.51	74.52	65.41	50.84	28.15
1505.7	95.11 (91.31)	88.2	63.45	70.77	76.25	80.23	82.52	82.42	83.55	74.60	65.57	51.13	28.67
1500.0	94.41 (90.71)	87.6	63.19	69.71	75.25	74.46	81.93	81.42	79.67	73.72	64.71	50.31	27.93
1505.7	93.71 (90.11)	86.9	62.74	69.67	74.14	74.44	81.16	81.65	78.68	72.72	63.54	49.24	25.78
1523.1	93.11 (90.51)	86.4	62.19	64.57	74.33	74.43	80.07	80.40	74.24	72.28	63.18	48.60	25.92
1552.9	92.31 (89.71)	85.7	61.06	64.31	74.15	77.46	80.23	80.12	77.28	71.22	62.70	47.20	24.13
1544.3	91.51 (89.01)	84.9	60.42	63.43	73.10	77.11	74.49	74.33	74.65	70.42	61.12	45.84	22.76
1655.1	90.61 (87.11)	84.1	59.42	60.22	72.03	70.26	74.67	74.51	75.40	69.34	59.71	44.13	19.74

WIND NUMBER	247.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INCH)	9.400
PRIMARY TEMPERATURE (IN)	520.000
SECONDARY TEMPERATURE (IN)	523.000
PRIMARY PRESSURE RATIO	3.300
AREA RATIO	2.807
VELOCITY RATIO	0.875
PRIMARY VELOCITY (FT/SEC)	1323.715
MASS FLOW RATIO	1.054
PRIMARY MASS FLOW (LB/SEC)	0.925
THRUST (LBS)	31.036
ENVIRONMENTAL TEMPERATURE (IN)	515.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	70.500
CALIBRATION FACTOR (MV TO DY/SG CH)	0.050
INSTRUMENTATION NOISE FLOOR (DB)	83.559

JUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	3.71612E-00	135.7	THRUST	POWER LEVEL (DB)
500	2.79415E-02	114.5	10000	160.0
1000	1.54344E-01	121.0	20000	163.0
2000	5.99740E-01	127.0	40000	166.0
4000	9.75499E-01	129.9	80000	169.0
8000	9.50401E-01	129.8		
16000	6.24000E-01	128.0		
31500	3.84691E-01	125.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.4	101.2	104.2	102.0	97.4	94.3	90.0	108.3
20.0	93.6	101.1	106.0	103.9	98.2	96.0	90.4	109.5
25.0	92.4	100.5	106.7	106.7	101.2	95.6	91.7	111.0
30.0	90.0	98.5	105.4	107.5	103.5	97.4	92.3	111.1
35.0	88.5	96.8	104.1	107.2	105.5	100.0	95.3	111.2
40.0	86.4	94.5	101.3	105.4	105.7	102.1	97.5	110.4
45.0	84.1	91.8	98.6	102.9	104.4	102.2	98.0	109.9
50.0	82.4	90.0	96.2	100.5	102.6	101.2	98.1	107.3
55.0	82.3	89.2	95.3	99.0	101.5	100.6	98.5	106.5
60.0	82.1	88.7	94.4	97.8	100.4	99.9	98.4	105.7
65.0	81.8	88.7	93.8	97.0	99.6	99.3	98.0	105.1
70.0	81.8	87.8	92.8	96.4	98.7	98.5	97.7	104.4
75.0	81.2	87.5	92.3	95.7	97.8	98.0	97.0	103.7
80.0	81.0	87.2	91.9	95.1	97.4	97.5	96.5	103.2
85.0	80.2	86.2	91.3	94.9	96.9	97.0	96.0	102.0
90.0	80.0	85.6	91.1	94.3	96.7	96.5	95.5	102.3
95.0	79.1	85.1	90.4	93.6	96.1	96.0	95.0	101.8
100.0	78.9	84.7	90.2	93.4	95.9	95.5	94.4	101.4
105.0	78.3	84.2	89.8	93.0	95.8	95.2	94.2	101.1
110.0	77.5	83.6	89.3	92.7	95.4	95.0	94.0	100.9
115.0	77.2	83.1	88.6	92.0	95.5	94.4	93.7	100.6

MODEL THRUST = 31.036 FULL SCALE THRUST = 20000.000

L.	PRDB.	OASPL	19.7	OCTAVE 39.4	BAND 78.8	SOUND 157.6	PRESSURE 315.1	LEVELS 630.3	1240.9	2481.7	4924.1	9848.2	19696.3
4795.6	80.1 (79.7)	81.2	67.80	74.40	77.68	74.95	69.36	63.55	53.05	36.04	5.21	-49.17	-137.14
4301.7	84.6 (84.0)	85.0	69.36	76.49	81.68	79.16	72.91	66.67	58.43	44.83	20.77	-21.11	-88.41
3549.3	89.0 (88.2)	88.3	70.08	78.08	84.27	84.04	77.90	70.77	62.99	51.41	31.30	-3.10	-58.14
3000.1	91.7 (90.6)	89.9	69.89	77.56	84.46	86.30	81.90	74.37	67.07	56.82	39.62	9.02	-37.16
2616.2	96.2 (93.0)	91.1	68.78	77.13	84.35	87.28	85.18	78.46	70.92	61.69	46.04	19.06	-21.68
2335.6	95.6 (94.0)	91.1	67.65	75.73	82.48	86.51	86.43	81.72	74.62	65.98	51.78	28.09	-9.12
2121.3	95.6 (93.0)	90.3	66.22	73.87	80.44	86.42	85.95	82.82	76.31	68.15	56.99	33.10	-9.32
1958.1	95.1 (92.0)	89.5	65.60	72.79	78.84	83.02	84.93	82.59	77.38	69.65	57.25	36.09	5.10
1831.2	95.2 (92.6)	89.1	65.69	72.61	78.43	82.27	84.39	82.74	78.59	71.17	59.37	40.14	10.29
1732.1	95.1 (92.2)	88.8	66.01	72.61	78.24	81.57	83.82	82.55	78.21	72.02	60.70	42.35	13.96
1655.1	95.1 (92.0)	88.5	66.06	72.62	78.01	81.15	83.41	82.42	78.34	72.35	61.39	43.72	18.45
1546.3	96.4 (91.6)	88.2	66.37	72.63	77.32	80.80	82.86	81.93	78.43	72.57	61.90	44.75	18.35
1552.9	94.6 (91.3)	87.7	66.06	72.29	77.87	80.41	82.70	81.71	78.05	72.30	61.84	45.07	19.30
1523.1	94.6 (91.0)	87.5	66.04	72.16	76.84	79.46	82.05	81.42	78.70	72.11	61.80	45.29	19.96
1505.7	94.0 (90.6)	87.1	65.33	71.30	76.41	79.84	81.66	81.03	78.42	71.78	61.55	45.20	20.12
1500.9	93.8 (90.2)	86.8	65.15	70.74	76.23	79.28	81.46	80.58	77.98	71.36	61.15	44.86	19.47
1505.7	93.8 (90.6)	86.1	64.70	70.22	75.45	78.61	80.45	80.02	77.44	70.80	60.57	44.22	19.14
1553.1	92.5 (90.0)	85.6	63.86	68.72	75.10	78.25	80.71	79.46	76.01	70.73	60.91	43.41	18.08
1552.9	91.4 (88.5)	85.2	63.18	68.00	74.41	77.71	80.05	78.45	74.27	69.52	59.06	42.29	16.57
1546.3	91.2 (88.0)	84.7	62.11	66.18	73.45	77.19	79.60	78.47	75.74	68.88	58.37	41.00	14.66
1455.1	90.5 (87.4)	84.1	61.50	67.19	72.40	76.10	79.32	78.00	75.02	68.02	57.07	39.40	12.14

WIND NUMBER	244.000
AIRIAL POSITION OF PRIMARY ANT. SECONDARY (INCH)	0.000
PRIMARY TEMPERATURE (IN)	524.000
SECONDARY TEMPERATURE (IN)	525.000
PRIMARY PRESSURE (PSI)	3.500
AREA (SQ IN)	2.007
VELOCITY (FT/SEC)	0.744
PRIMARY VELOCITY (FT/SEC)	1340.304
MASS FLOW (LBS/SEC)	1.420
PRIMARY MASS FLOW (LBS/SEC)	0.427
THRUST (LBS)	35.836
ENVIRONMENTAL TEMPERATURE (IN)	515.500
ENVIRONMENTAL HUMIDITY (IN/HG)	24.490
ENVIRONMENTAL HUMIDITY (IN/CM)	70.590
CALIBRATION FACTOR (LBS TO NEWTONS)	0.050
INSTRUMENTATION NOISE FLOOR (DB)	62.559

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.27420E+00	116.3	THRUST	POWER LEVEL (DB)
500	3.75142E-02	115.7	10000	160.7
1000	2.04643E-01	123.2	20000	163.7
2000	7.15513E-01	128.5	40000	166.7
4000	1.09179E+00	130.4	80000	169.7
8000	1.05418E+00	130.2		
16000	7.00060E-01	128.5		
31500	4.15955E-01	126.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.6	102.3	104.5	101.7	96.7	93.6	89.9	108.5
20.0	95.1	102.0	106.0	103.7	97.9	93.8	90.2	109.7
25.0	93.3	101.7	107.0	105.9	100.1	95.3	91.6	110.8
30.0	92.1	99.8	106.2	107.3	103.2	97.0	92.9	111.3
35.0	89.6	98.3	104.9	107.7	104.5	99.5	94.8	111.6
40.0	87.3	95.9	102.4	106.0	104.4	101.0	96.7	110.6
45.0	85.8	93.9	100.2	104.1	104.9	101.0	97.7	109.5
50.0	84.5	92.1	98.0	101.6	103.5	101.7	94.5	108.2
55.0	83.8	90.8	96.5	100.0	102.1	101.0	98.7	107.2
60.0	83.2	90.6	96.0	99.2	101.7	101.0	98.9	106.9
65.0	82.9	90.0	96.0	98.0	101.5	100.0	98.7	105.9
70.0	82.6	89.4	94.2	97.5	99.4	99.1	94.4	105.2
75.0	82.3	88.4	93.8	96.6	98.5	99.0	97.5	104.7
80.0	82.1	87.9	93.1	96.1	97.9	98.8	97.0	104.1
85.0	81.6	88.0	92.5	95.6	97.0	98.0	96.2	103.6
90.0	80.9	86.4	92.2	95.4	97.7	97.5	96.0	103.3
95.0	79.6	85.7	91.8	94.7	97.4	97.2	95.5	102.8
100.0	79.0	86.0	91.3	94.3	96.7	97.0	95.2	102.4
105.0	79.3	85.3	90.8	93.9	96.7	96.5	95.0	102.2
110.0	78.4	85.1	90.5	93.8	96.4	96.3	94.5	102.0
115.0	77.5	84.3	90.1	93.1	96.7	96.0	94.0	101.6

MODEL THRUST = 35.836 FULL SCALE THRUST = 20000.000

L.	PRD.	OASPL	21.2	OCTAVE 42.3	BAND 84.7	SOUND 169.3	PRESSURE 338.6	LEVELS 677.3	1333.4	2666.8	5291.2	10582.4	21164.9
5795.6	79.61 (79.2)	80.9	68.37	75.00	77.11	73.89	67.83	61.81	51.30	33.17	.39	-57.00	-148.94
6385.7	84.31 (83.7)	84.5	70.24	77.20	81.09	78.45	71.88	65.52	56.82	42.37	16.84	-27.32	-97.64
3549.3	88.31 (87.8)	87.5	70.29	78.49	83.40	82.40	75.13	69.52	61.84	49.38	28.15	-8.14	-65.66
3000.0	91.31 (90.4)	89.4	70.54	78.31	84.62	85.50	80.60	73.10	65.53	54.69	36.28	5.12	-43.44
2615.7	93.91 (92.8)	90.8	69.11	77.41	84.67	87.15	84.42	77.10	63.32	59.50	43.06	15.52	-22.44
2333.4	95.01 (93.6)	90.7	68.01	76.59	83.05	87.49	85.43	79.46	72.83	63.74	48.75	23.64	-14.94
2121.7	95.61 (93.9)	90.3	67.31	75.15	81.40	85.39	85.67	81.62	75.04	66.54	52.44	29.73	-5.44
1958.1	95.51 (93.5)	89.6	66.60	74.23	80.15	83.62	85.10	82.31	76.82	68.71	55.65	34.27	1.21
1831.2	95.41 (93.0)	89.1	66.60	73.54	79.34	82.64	84.40	82.34	77.87	70.04	57.68	37.49	4.39
1722.1	95.71 (93.2)	89.3	66.50	73.40	78.25	81.34	84.46	82.87	78.75	71.23	59.33	40.04	10.44
1655.1	95.91 (92.8)	89.7	66.59	73.43	78.18	81.44	83.64	82.74	79.49	71.77	62.26	41.73	14.74
1544.3	95.01 (92.1)	88.3	66.59	73.34	78.16	81.24	82.92	81.82	78.26	72.09	60.44	42.91	15.44
1552.0	94.71 (91.9)	88.0	66.50	72.14	77.64	81.42	82.59	81.99	78.44	71.40	60.62	43.05	14.21
1573.1	94.61 (91.6)	87.4	66.50	72.10	77.39	81.37	81.84	81.94	78.34	71.40	60.58	43.04	14.94
1505.7	94.61 (91.1)	87.3	66.67	72.49	78.54	81.20	81.95	81.28	77.70	70.77	60.04	42.90	14.74
1500.0	93.71 (90.8)	87.0	65.35	71.25	76.41	79.15	81.77	80.84	77.56	70.66	59.45	42.87	16.04
1565.7	93.21 (90.4)	86.6	64.27	70.21	76.24	78.07	81.41	80.51	77.06	70.12	58.39	42.74	15.14
1523.1	92.71 (89.8)	86.0	64.39	70.34	75.51	77.91	80.51	80.16	76.61	69.63	58.81	41.51	15.13
1552.4	92.21 (89.4)	85.5	63.65	69.45	75.00	77.90	80.43	79.50	76.14	69.14	58.16	40.54	13.74
1506.4	91.71 (88.9)	85.1	62.87	69.47	74.30	77.41	80.34	79.04	74.33	68.16	56.96	39.98	11.47
1645.1	91.31 (88.4)	84.4	61.17	67.97	73.67	76.41	79.93	78.34	74.41	67.04	55.48	37.05	8.44

NUM. RINGERS	=	240,000
AIRAL POSITION OF PRIMARY WPT. SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (IN)	=	520.000
SECONDARY TEMPERATURE (IN)	=	520.000
PRIMARY PRESSURE RATIO	=	3.500
AREA RATIO	=	0.450
VELOCITY RATIO	=	0.350
PRIMARY VELOCITY (FT/SEC)	=	1373.715
MASS FLOW RATIO	=	1.300
PRIMARY MASS FLOW (LB/SEC)	=	0.525
THRUST (LBS)	=	26.474
ENVIRONMENTAL TEMPERATURE (IN)	=	515.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	=	70.500
CALIBRATION FACTOR (MV TO DY/52 CM)	=	0.050
INSTRUMENTATION NOISE FLOOR (DB)	=	61.559

TIC POWER AND SOUND POWER LEVEL FOR MODEL JET

REQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	2.82440E+00	134.5	THRUST POWER LEVEL (DB)
500	2.06854E-02	113.2	10000 160.3
1000	1.27274E-01	121.0	20000 163.3
2000	4.02790E-01	126.9	40000 166.3
4000	8.40951E-01	129.2	80000 169.3
8000	7.54240E-01	128.8	
16000	3.45432E-01	126.0	
31500	1.91976E-01	122.8	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.1	101.5	105.6	105.1	100.1	94.8	90.4	110.0
20.0	92.9	101.6	106.5	106.6	103.5	95.9	90.9	111.2
25.0	91.3	99.8	106.1	107.7	105.3	98.6	92.8	111.9
30.0	89.0	97.7	104.9	107.5	105.6	99.1	93.1	111.4
35.0	86.3	95.0	102.0	105.9	105.1	100.0	94.9	110.2
40.0	84.0	92.2	99.2	103.5	104.1	100.4	94.2	108.7
45.0	82.3	89.8	96.7	101.2	102.7	100.5	96.3	107.2
50.0	80.8	88.2	94.8	98.3	100.6	99.3	95.8	105.4
55.0	80.2	87.0	92.9	97.1	98.6	98.0	95.7	104.0
60.0	80.0	86.4	92.4	95.9	98.2	97.2	95.0	103.3
65.0	79.8	86.3	91.9	94.0	97.0	96.3	94.3	102.3
70.0	79.8	85.7	90.9	94.1	96.1	95.5	93.5	101.5
75.0	78.6	85.1	90.4	93.6	95.1	95.0	93.0	100.8
80.0	79.1	84.9	89.9	93.1	94.7	94.7	92.5	100.5
85.0	78.9	84.3	89.3	92.1	93.8	94.2	92.1	99.8
90.0	77.8	83.4	88.6	91.8	93.6	93.5	91.8	99.3
95.0	77.5	83.4	88.1	91.3	93.1	93.0	91.2	98.3
100.0	77.2	83.3	87.8	90.8	92.7	92.3	90.8	98.3
105.0	76.6	82.5	86.9	90.1	92.0	91.8	90.0	97.7
110.0	75.9	81.7	86.4	89.4	91.2	91.2	89.5	97.0
115.0	75.6	81.1	86.3	89.5	91.3	90.8	89.0	96.8

MODEL THRUST = 26.474 FULL SCALE THRUST = 20000.000

L.	PH01.	OASPL	18.2	OCTAVE 36.4	BAND 72.8	SOUND 145.5	PRESSURE 291.1	LEVELS 592.1	1144.1	2292.1	4547.8	9095.6	18191.3
15.4	83.01 (92.5)	83.6	68.16	75.57	79.52	78.75	72.89	65.28	55.21	39.36	10.56	-40.62	-124.25
16.7	87.71 (37.0)	87.4	69.39	78.04	82.94	82.78	79.00	69.57	60.32	47.60	25.07	-14.39	-78.40
19.3	91.41 (40.5)	89.8	69.60	78.12	84.32	85.78	82.84	74.44	65.21	54.14	35.54	3.03	-49.35
10.3	93.21 (92.2)	93.8	68.76	77.51	84.54	87.04	84.70	77.05	64.13	58.48	42.13	14.19	-30.55
5.7	94.21 (92.0)	93.7	67.24	76.02	82.04	86.64	85.40	79.32	71.69	62.89	48.25	23.50	-15.28
13.7	84.71 (32.4)	83.1	65.65	74.14	81.15	85.33	85.44	81.14	74.41	66.24	52.65	30.45	-5.02
11.3	84.61 (27.5)	80.4	65.11	72.64	79.44	83.45	85.00	81.99	75.69	67.99	55.54	34.91	2.60
10.1	83.41 (31.6)	80.2	64.35	71.71	78.24	81.71	83.65	81.61	76.19	68.85	57.13	37.85	7.61
11.2	93.71 (93.4)	87.3	64.32	71.04	76.93	81.07	82.25	80.91	76.86	69.80	58.64	40.42	11.94
12.1	93.71 (93.3)	87.2	64.54	70.94	76.94	80.35	82.36	80.49	75.75	64.91	59.20	41.80	14.70
14.1	92.71 (92.7)	85.6	64.76	71.24	76.82	74.63	81.58	80.20	74.44	69.92	59.55	42.79	12.76
16.1	92.41 (92.3)	86.2	65.08	71.02	76.16	74.38	81.01	79.81	75.18	69.64	59.54	43.27	15.05
17.9	92.11 (91.9)	85.8	64.13	70.44	75.47	74.00	80.31	79.49	76.01	69.57	59.46	43.75	19.14
23.1	91.91 (91.7)	85.6	64.79	70.44	75.46	74.89	80.69	79.44	75.72	64.35	59.46	43.90	19.71
25.7	91.51 (91.2)	85.0	64.45	70.11	75.04	71.76	79.24	79.04	75.50	64.16	59.45	43.94	19.99
30.0	91.01 (91.7)	84.6	63.63	69.29	74.35	71.49	79.10	78.39	75.17	68.84	59.16	43.69	19.43
35.7	90.41 (91.1)	84.0	63.31	69.22	73.82	70.94	78.54	77.82	74.54	64.70	58.50	42.94	19.02
23.1	83.71 (92.4)	81.4	62.61	67.47	72.41	74.23	74.00	76.44	74.00	67.12	57.64	42.16	17.49
27.9	86.41 (95.6)	82.4	62.12	67.47	72.41	74.23	74.00	76.44	74.00	67.12	57.64	42.16	17.49
26.3	87.41 (94.7)	81.7	61.22	67.41	71.43	74.12	75.51	72.22	65.69	55.58	39.31	14.10	
25.1	87.11 (94.0)	81.2	60.55	66.11	71.19	74.13	75.66	74.72	71.31	64.64	56.27	37.51	11.49

WIND NUMBER	
AIRIAL POSITION OF PRIMARY WHT. SECONDARY (INCH)	250.00 (747.00)
PRIMARY TEMPERATURE (IN)	9.000
SECONDARY TEMPERATURE (IN)	517.000
PRIMARY PRESSURE RATIO	531.000
AREA RATIO	3.500
VELOCITY RATIO	4.456
PRIMARY VELOCITY (FT/SEC)	684
MASS FLOW RATIO	1389.747
PRIMARY MASS FLOW (LB/SEC)	2.814
THRUST (LBS)	427
ENVIRONMENTAL TEMPERATURE (IN)	53.104
ENVIRONMENTAL PRESSURE (IN.HG)	522.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.450
CALIBRATION FACTOR (MV TO DY/S) C-1	89.000
INSTRUMENTATION NOISE FLOOR (DB)	0.556
	64.590

JETIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.13749E+00	136.2	THRUST	POWER LEVEL (DB)
500	8.64049E-02	119.4	10000	158.9
1000	3.87902E-01	125.9	20000	161.9
2000	9.93044E-01	130.0	40000	164.9
4000	9.45903E-01	129.8	80000	167.9
8000	6.24253E-01	128.0		
16000	4.86051E-01	126.9		
31500	6.13937E-01	127.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	101.0	106.6	108.7	103.9	97.5	95.4	90.5	112.2
20.0	99.4	106.6	109.1	105.6	98.8	93.9	89.9	112.6
25.0	97.4	104.6	108.7	106.8	100.5	94.4	91.5	112.4
30.0	95.5	102.2	107.6	107.0	102.1	95.8	93.2	111.8
35.0	92.5	99.8	105.3	106.1	103.2	97.8	95.2	110.7
40.0	90.0	97.3	102.8	104.0	102.9	99.2	97.0	109.2
45.0	87.6	94.5	99.8	101.8	102.0	99.7	99.3	107.9
50.0	86.7	93.4	98.4	100.5	100.9	99.5	100.9	107.3
55.0	85.6	92.2	97.1	99.1	99.7	99.1	101.4	106.7
60.0	85.7	91.8	96.1	97.8	98.8	99.4	101.4	106.2
65.0	85.7	91.1	95.6	97.4	98.0	98.9	100.6	105.6
70.0	85.7	90.6	94.9	97.0	97.4	98.5	100.0	105.1
75.0	84.4	89.9	94.3	96.6	96.7	97.9	99.3	104.5
80.0	84.3	89.0	93.9	95.8	96.0	97.0	98.7	103.8
85.0	83.7	88.7	93.4	95.4	95.5	96.5	98.0	103.2
90.0	83.2	88.3	92.4	95.1	95.0	96.0	97.0	102.6
95.0	83.0	87.8	92.5	94.9	94.7	95.5	96.8	102.3
100.0	82.5	87.5	92.4	94.6	94.3	95.1	96.5	102.0
105.0	81.9	86.8	92.0	94.5	94.0	94.9	96.0	101.6
110.0	81.7	86.0	91.9	94.5	93.8	94.6	95.9	101.5
115.0	81.1	85.9	91.4	94.7	93.5	94.5	95.8	101.4

MODEL THRUST = 53.104 FULL SCALE THRUST = 20000.000

L.	PHOB.	OASPL	OCTAVE		BAND	SOUND	PRESSURE		LEVELS				
			25.0	51.5	103.1	206.1	412.2	824.5	1623.2	3246.3	6441.1	12882.2	25764.4
795.6	82.01 (81.8)	82.9	72.05	77.58	79.56	74.18	66.38	60.44	47.06	25.45	-13.14	-79.35	-182.71
784.7	85.51 (85.2)	85.8	72.37	80.04	82.38	73.53	70.56	62.83	52.38	35.30	5.36	-45.47	-124.42
1549.3	88.41 (87.9)	87.3	72.72	79.92	83.91	81.62	74.43	64.01	57.88	43.48	18.68	-23.03	-87.49
1000.0	90.51 (89.8)	88.1	72.26	78.96	84.44	83.41	77.75	69.50	62.41	49.78	28.35	-7.37	-62.32
615.2	91.61 (90.7)	84.1	70.49	77.79	83.21	83.72	80.13	71.08	64.59	55.18	36.12	4.60	-43.69
333.4	92.31 (91.0)	87.5	68.95	76.19	81.65	82.68	81.01	73.80	70.08	59.59	42.26	13.80	-29.61
212.3	92.81 (91.1)	86.6	67.78	74.23	79.55	81.32	80.97	77.25	73.73	63.92	47.89	21.76	-17.94
156.1	93.91 (91.9)	86.5	67.22	73.83	78.84	80.74	80.63	77.93	76.43	67.14	52.12	27.76	-9.19
1031.2	94.71 (92.4)	86.3	66.85	73.29	78.07	79.94	80.94	74.31	77.87	68.99	54.75	31.77	-2.94
732.1	95.11 (92.8)	86.3	67.20	73.32	77.61	74.15	74.65	74.12	74.57	70.01	56.37	34.48	1.44
465.1	95.01 (92.6)	86.1	67.60	73.52	77.49	74.16	74.29	73.13	73.39	70.07	56.91	35.88	4.19
334.3	94.91 (92.5)	86.0	67.91	72.84	77.95	74.03	74.06	73.11	74.25	70.13	57.32	36.91	6.27
1552.9	94.61 (92.1)	85.7	66.92	72.33	76.75	74.47	78.63	74.79	77.91	69.93	57.39	37.45	7.56
1023.1	94.21 (91.7)	85.1	66.94	71.62	76.52	74.23	78.10	74.11	77.56	69.67	57.31	37.70	8.32
705.7	93.71 (91.2)	84.8	66.42	71.44	76.17	74.02	77.71	77.73	77.00	69.17	56.92	37.50	8.43
500.0	92.91 (90.4)	84.2	65.96	71.08	75.53	77.72	77.71	77.23	74.01	68.19	55.98	36.62	7.65
350.7	92.61 (90.1)	83.9	65.75	70.43	75.22	77.44	76.84	74.64	75.79	67.95	55.70	36.28	7.21
253.1	92.71 (89.7)	83.5	65.11	70.11	74.98	77.24	76.38	74.21	74.34	67.45	55.09	35.48	6.11
1552.9	91.51 (89.0)	82.9	64.37	69.26	74.44	76.16	75.60	74.77	74.59	66.00	54.07	34.13	4.24
1096.1	91.01 (88.6)	82.5	63.93	68.27	74.14	76.52	75.66	74.23	74.18	66.05	53.25	32.88	2.14
765.1	90.41 (88.0)	82.0	62.94	67.61	73.29	76.40	74.80	74.72	73.58	65.21	52.19	31.65	-0.61

NUM RUNS	= 251.000
AXIAL POSIT (ON OF PRIMARY WPT, SECONDARY (IN.))	= 9.000
PRIMARY TEMPERATURE (IN)	= 523.000
SECONDARY TEMPERATURE (IN)	= 541.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 4.850
VELOCITY RATIO	= .756
PRIMARY VELOCITY (FT/SEC)	= 1377.672
MASS FLOW RATIO	= 3.231
PRIMARY MASS FLOW (LB/SEC)	= 1423
THRUST (LBS)	= 62.375
ENVIRONMENTAL TEMPERATURE (IN)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (IN TO OY/50 CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.57932E+00	138.2	THRUST	POWER LEVEL (DB)
			10000	160.2
500	1.50875E-01	121.8	20000	163.2
1000	5.80433E-01	127.6	40000	166.3
2000	1.40523E+00	131.5	80000	169.3
4000	1.46540E+00	132.7		
8000	1.02269E+00	130.1		
16000	9.40092E-01	124.7		
31500	1.01434E+00	130.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	4000	SOUND PRESSURE LEVELS	6000	16000	31500	OVER ALL
15.0	105.4	109.7	109.5	105.3	99.2	94.9	90.8	113.0		
20.0	101.3	107.9	110.4	106.7	100.1	95.1	91.9	112.9		
25.0	99.4	106.5	110.1	107.8	101.5	96.1	93.1	113.7		
30.0	97.0	104.5	109.1	106.4	103.5	98.1	95.2	113.3		
35.0	94.3	101.7	106.8	107.9	104.5	99.7	97.2	112.3		
40.0	91.5	98.1	104.4	105.5	104.2	100.9	99.5	110.7		
45.0	89.9	96.6	102.3	104.0	103.9	102.3	101.7	110.2		
50.0	88.5	95.2	100.3	102.7	102.8	102.1	103.2	109.5		
55.0	87.3	93.8	99.1	101.5	102.7	102.3	103.9	109.2		
60.0	87.3	93.3	98.3	100.5	101.1	102.1	103.0	108.4		
65.0	87.0	92.6	97.5	100.3	100.6	102.0	102.1	107.9		
70.0	86.4	92.2	96.7	99.1	99.9	101.0	101.4	107.1		
75.0	85.8	91.1	96.3	99.0	99.0	100.2	100.4	106.5		
80.0	85.6	90.9	95.6	98.1	98.5	99.9	100.4	106.0		
85.0	85.3	90.4	95.4	97.8	98.2	99.5	100.0	105.6		
90.0	84.8	90.1	94.8	97.8	98.0	99.3	99.7	105.4		
95.0	84.4	89.1	94.2	97.7	97.9	99.0	99.5	105.1		
100.0	84.1	88.9	94.4	97.0	97.8	98.9	99.3	105.1		
105.0	83.5	88.6	93.8	97.5	97.5	98.8	99.2	104.9		
110.0	82.8	88.2	93.9	97.2	97.4	98.7	99.1	104.7		
115.0	82.6	87.3	93.7	96.3	97.4	98.7	99.0	104.9		

MODEL THRUST = 62.375 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	27.9	OCTAVE BAND	55.8	111.7	223.4	SOUND PRESSURE LEVELS	446.8	893.5	1759.1	3518.3	6980.7	13961.4	27922.9
5795.6	82.71	82.61	83.9	75.71	78.98	79.60	74.46	67.02	58.60	45.04	21.87	-19.34	-89.40	-197.56	
4385.7	86.21	86.01	86.3	74.11	80.57	82.93	78.86	70.68	62.79	52.51	34.23	2.32	-51.43	-134.01	
3549.3	89.21	88.71	88.0	73.97	81.11	84.55	81.90	74.62	66.61	57.90	42.53	16.13	-27.96	-95.34	
3080.0	91.51	90.91	88.0	73.05	80.51	85.01	84.73	78.29	70.71	63.00	49.54	26.77	-10.94	-68.38	
2615.2	92.81	91.91	89.0	71.55	79.92	83.97	84.76	80.60	73.97	67.25	55.14	34.89	1.64	-48.82	
2333.6	93.11	91.91	88.1	69.76	76.30	82.54	83.45	81.46	76.46	71.26	60.13	41.75	11.75	-33.59	
2121.3	94.21	92.61	88.1	68.97	75.62	81.29	82.93	82.08	78.91	74.86	64.47	47.48	19.94	-21.55	
1958.1	95.51	93.61	87.8	68.28	74.95	79.48	82.20	81.71	79.63	77.60	67.78	51.97	26.22	-12.31	
1831.2	96.51	94.51	88.0	67.62	74.19	79.39	81.55	81.83	80.56	79.22	69.84	54.77	36.58	-5.84	
1732.1	96.31	94.31	87.7	68.10	74.13	79.12	81.13	81.24	80.95	79.04	70.01	55.59	32.55	-1.88	
1655.1	96.21	94.11	87.7	68.23	73.78	78.48	81.27	81.17	81.33	79.72	69.96	56.65	33.90	0.97	
1596.3	95.91	93.81	87.2	67.97	73.71	78.73	80.45	80.78	80.73	79.57	70.01	56.48	35.01	3.05	
1592.9	95.71	93.51	86.9	67.66	72.92	77.98	80.54	80.15	80.20	79.39	69.97	56.73	35.77	4.59	
1573.1	95.41	93.21	86.5	67.61	72.82	77.40	79.41	79.80	80.10	79.15	69.85	56.81	36.18	5.54	
1565.9	95.21	93.01	86.3	67.36	72.44	77.38	79.65	79.62	79.82	77.90	69.65	56.72	35.30	5.94	
1500.0	95.61	92.71	86.1	66.96	72.17	76.81	79.44	79.48	79.67	77.63	69.40	56.52	36.16	5.94	
1505.7	96.71	92.41	85.8	66.56	71.14	76.14	79.51	79.33	79.34	77.37	69.12	56.19	34.77	5.45	
1523.1	96.41	92.21	85.7	66.03	70.73	76.26	79.72	79.12	79.12	77.05	68.76	55.70	35.08	4.44	
1552.9	96.41	91.81	85.2	65.20	70.42	75.52	79.10	78.64	78.64	76.63	68.28	55.84	34.87	2.49	
1506.3	93.51	91.31	84.8	64.38	64.69	72.35	78.53	78.28	78.43	76.21	67.65	54.13	32.66	1.69	
1655.1	93.11	90.91	84.7	63.84	64.57	74.88	79.72	77.74	78.05	75.69	66.91	53.00	30.85	-2.10	

GUN NUMBER	=	252.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	=	9.800
PRIMARY TEMPERATURE (IN)	=	531.000
SECONDARY TEMPERATURE (IN)	=	541.000
PRIMARY PRESSURE RATIO	=	3.500
AREA RATIO	=	9.700
VELOCITY RATIO	=	1.357
PRIMARY VELOCITY (FT/SEC)	=	1308.149
MASS FLOW RATIO	=	2.469
PRIMARY MASS FLOW (LB/SEC)	=	4.222
THRUST (LBS)	=	34.206
ENVIRONMENTAL TEMPERATURE (IN)	=	523.500
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	=	64.500
CALIBRATION FACTOR (MV TO DY/SEC CM)	=	0.079
INSTRUMENTATION NOISE FLOOR (DB)	=	67.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	6.64286E+00	130.2	THRUST	POWER LEVEL (DB)
500	1.86982E-01	122.7	10000	162.9
1000	1.09153E-01	120.4	20000	165.9
2000	5.37695E-01	127.3	40000	168.9
4000	1.54230E+00	131.9	80000	171.9
8000	2.16037E+00	133.3		
16000	1.38201E+00	131.4		
31500	7.24162E-01	129.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	110.9	100.3	105.3	107.2	107.2	103.4	98.6	114.8
20.0	91.9	100.2	106.9	109.4	108.9	104.9	102.5	114.3
25.0	90.2	98.7	106.4	110.6	110.7	107.3	102.8	115.5
30.0	87.9	97.5	105.2	110.8	111.6	108.4	104.0	116.0
35.0	86.5	94.9	102.7	109.2	111.0	108.4	104.3	115.2
40.0	83.8	92.3	100.5	106.1	108.8	107.0	103.7	113.1
45.0	82.6	90.2	97.2	102.9	106.2	105.7	103.0	111.0
50.0	81.8	88.5	95.2	100.4	104.0	103.8	101.5	108.9
55.0	80.3	87.2	93.8	98.8	101.8	101.8	100.4	107.1
60.0	80.0	86.6	93.3	97.4	100.6	100.5	99.3	106.0
65.0	80.0	86.5	92.6	96.4	99.2	99.3	98.6	104.9
70.0	79.6	86.1	91.9	95.6	98.3	98.3	97.8	104.0
75.0	78.9	85.6	91.1	95.1	97.4	97.4	97.0	103.2
80.0	78.9	84.3	90.4	93.9	96.4	96.9	96.0	102.3
85.0	78.0	84.3	90.3	93.4	95.7	95.8	95.0	101.6
90.0	78.0	83.9	89.1	92.8	94.8	95.0	94.0	100.7
95.0	77.1	83.1	88.6	92.4	94.2	94.2	93.2	100.0
100.0	77.1	82.9	88.3	91.6	93.7	93.6	92.9	99.5
105.0	76.6	82.0	87.7	90.8	93.0	93.0	92.2	98.8
110.0	74.9	81.8	86.9	90.4	92.6	92.8	91.9	98.5
115.0	75.5	81.1	86.6	89.9	92.1	92.5	91.5	98.1

MODEL THRUST = 34.206 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 20.7	BAND 41.4	SOUND 82.7	PRESSURE 165.4	LEVELS 330.8	661.7	1302.7	2605.4	5169.5	10339.0	20678.0
5795.6	87.81 (47.4)	87.1	83.81	73.25	78.12	74.66	78.57	72.01	60.56	42.80	10.66	-45.74	-136.42
4386.7	91.81 (41.0)	88.7	67.30	75.58	82.13	84.41	83.08	76.98	67.55	53.38	28.33	-15.08	-84.43
3549.3	95.81 (44.8)	91.8	67.40	75.86	83.53	87.46	87.00	81.82	73.32	61.28	40.44	-4.73	-51.96
3008.0	93.41 (47.1)	93.8	66.54	76.18	83.84	89.23	89.50	84.79	77.00	66.36	48.28	17.63	-10.75
2615.2	92.31 (47.8)	94.1	66.37	74.71	82.53	88.88	90.21	86.34	79.17	69.51	53.37	25.27	-10.29
2333.6	98.71 (46.4)	92.9	64.69	73.16	81.28	86.79	89.05	86.08	80.11	71.17	56.43	31.93	-8.37
2121.3	97.71 (45.5)	91.6	64.33	71.92	78.84	84.45	87.36	85.78	80.71	72.30	59.64	38.09	1.00
1958.1	96.61 (44.1)	90.2	64.22	70.87	77.57	82.61	85.83	84.70	80.20	72.21	59.36	38.32	5.70
1831.2	95.61 (42.9)	89.1	63.78	70.12	76.77	81.42	84.30	83.36	79.87	72.21	60.09	40.13	9.43
1737.1	95.01 (42.2)	88.4	63.47	70.27	76.74	80.71	83.56	82.43	79.48	72.07	60.36	41.40	12.20
1655.1	94.51 (41.5)	87.8	63.42	70.33	76.40	80.12	82.50	81.00	73.31	72.08	60.76	42.51	15.67
1596.3	94.21 (41.1)	87.3	63.78	70.27	76.41	79.44	81.98	81.25	74.44	71.87	60.85	43.14	15.49
1552.9	93.81 (40.6)	86.7	63.26	69.97	75.91	79.35	81.34	80.65	74.48	71.52	60.71	43.40	16.91
1523.1	93.11 (40.9)	86.3	63.43	68.89	74.94	78.35	80.58	80.29	77.66	70.78	60.12	43.08	17.04
1505.7	92.31 (40.1)	85.4	62.70	68.94	74.72	77.97	80.00	79.37	76.81	69.98	59.41	42.53	16.75
1500.0	91.51 (38.3)	84.6	62.73	68.57	73.74	77.40	79.13	78.58	75.87	69.05	58.51	41.69	16.00
1504.7	90.61 (37.5)	83.9	61.79	67.40	73.76	76.92	78.44	77.72	74.94	68.14	57.57	40.70	14.92
1523.1	90.01 (36.8)	83.2	61.69	67.44	72.55	76.03	77.81	77.01	74.45	67.57	56.92	39.88	13.64
1552.9	89.11 (35.9)	82.4	61.02	66.45	72.02	75.12	76.98	76.19	73.64	66.72	55.91	38.60	12.11
1596.3	88.41 (35.4)	81.3	59.09	65.91	71.07	74.42	76.33	75.81	73.04	65.00	54.97	37.26	10.12
1655.1	87.51 (34.6)	81.0	59.38	64.99	70.38	73.61	75.47	75.11	72.19	64.97	53.65	35.60	7.30

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 253.000
PRIMARY TEMPERATURE (IN)	= 9.400
SECONDARY TEMPERATURE (IN)	= 531.060
PRIMARY PRESSURE RATIO	= 937.080
AREA RATIO	= 3.500
VELOCITY RATIO	= 9.709
PRIMARY VELOCITY (FT/SEC)	= 677
MASS FLOW RATIO	= 1389.169
PRIMARY MASS FLOW (LB/SEC)	= 5.463
THRUST (LBS)	= 1925
ENVIRONMENTAL TEMPERATURE (IN)	= 86.110
ENVIRONMENTAL PRESSURE (IN.HG)	= 523.500
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.470
CALIBRATION FACTOR (MV TO UT/5) CM)	= 64.500
INSTRUMENTATION NO (SE FLOOR (DB)	= .089
	= 88.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.21413E+01	140.8	THRUST	POWER LEVEL (DB)
500	1.28619E-01	121.1	18000	161.5
1000	5.64207E-01	127.5	20000	164.5
2000	1.67599E+00	132.2	40000	167.5
4000	2.69534E+00	134.3	80000	170.5
8000	3.40649E+00	135.3		
16000	2.31510E+00	133.6		
31500	1.35549E+00	131.3		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	100.7	106.3	107.3	106.5	105.0	100.9	96.4	113.0
20.0	99.9	106.3	109.0	108.8	107.7	104.4	100.0	114.9
25.0	99.2	105.8	109.9	109.9	108.6	105.5	101.9	115.6
30.0	98.8	104.3	110.1	112.0	111.0	107.8	103.8	117.0
35.0	98.2	102.5	108.6	111.7	112.3	108.9	104.7	117.1
40.0	97.5	100.2	106.6	110.0	112.2	109.6	105.0	116.5
45.0	97.6	98.3	103.8	107.3	110.0	108.6	105.5	114.7
50.0	97.5	96.4	102.3	105.6	108.3	107.3	104.7	113.2
55.0	97.0	95.8	100.9	104.0	106.2	105.5	103.6	111.5
60.0	96.7	95.2	100.3	102.9	105.0	104.7	103.7	110.7
65.0	96.4	94.4	99.6	101.9	103.7	103.2	102.5	109.5
70.0	96.6	93.9	98.8	101.1	102.4	102.1	102.3	108.7
75.0	96.0	93.4	97.9	100.5	101.4	101.1	101.0	107.7
80.0	97.5	93.0	97.4	99.6	100.6	101.4	100.5	107.3
85.0	96.8	92.4	97.0	98.7	99.7	100.5	99.8	106.5
90.0	97.0	92.0	96.6	98.1	99.3	100.0	99.0	106.0
95.0	96.3	90.9	96.2	97.9	99.1	99.5	98.5	105.6
100.0	95.3	90.9	95.8	97.2	98.7	99.0	98.0	105.1
105.0	95.0	90.5	95.2	96.7	98.6	98.6	97.4	104.8
110.0	93.9	89.6	95.1	96.4	98.7	98.4	97.6	104.6
115.0	93.4	88.9	94.9	96.3	99.0	98.3	97.5	104.6

MODEL THRUST = 86.110 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS												
			32.0	63.6	125.2	250.5	500.9	1000.9	2000.9	4000.8	8000.1	16000.1	32000.2						
5795.6	82.21 (82.1)	80.9	69.65	75.17	75.92	74.35	70.83	61.59	45.79	19.08	-27.78	-105.94	-223.91						
4385.7	87.91 (87.6)	85.0	71.29	77.60	80.15	74.39	76.73	69.48	56.62	35.68	-5.51	-60.39	-150.39						
3549.3	91.31 (90.9)	87.7	72.40	78.94	82.85	82.44	79.90	73.61	63.14	45.62	15.76	-33.27	-106.68						
3000.0	94.91 (94.4)	90.5	71.48	78.96	84.62	86.10	84.08	78.20	68.33	53.06	27.36	-14.55	-77.06						
2615.2	97.01 (96.3)	91.7	71.01	78.27	84.32	87.06	86.72	80.99	71.71	58.01	35.22	-1.70	-56.58						
2333.6	96.01 (97.1)	91.9	70.36	77.05	83.35	86.44	87.74	83.10	73.48	61.44	40.78	7.51	-41.78						
2121.3	97.41 (96.3)	90.7	69.27	75.97	81.37	84.55	86.49	83.27	76.06	64.38	45.23	14.82	-30.26						
1904.1	96.91 (95.6)	89.3	67.90	74.72	80.55	83.61	85.60	82.46	76.44	65.43	47.61	19.21	-22.63						
1831.2	95.11 (94.6)	88.9	67.95	74.72	79.76	82.65	84.20	81.47	76.35	65.86	49.01	22.78	-17.07						
1732.1	96.51 (94.9)	88.5	68.15	74.48	74.65	82.04	83.48	81.67	77.26	67.17	51.06	25.60	-11.76						
1655.1	95.91 (94.3)	87.9	68.26	74.23	74.31	81.46	82.64	80.68	74.72	66.95	51.63	26.94	-4.87						
1546.3	95.81 (94.1)	87.3	68.72	74.66	78.81	80.41	81.72	74.99	77.04	67.51	52.43	28.72	-5.94						
1552.9	95.11 (93.4)	86.7	68.36	73.73	78.72	80.44	80.92	79.29	76.13	66.77	52.02	28.88	-4.92						
1523.1	94.91 (96.3)	85.4	68.05	73.51	77.90	74.40	80.36	79.74	75.92	66.68	52.16	27.40	-3.81						
1505.7	94.31 (92.5)	85.7	67.47	73.64	77.56	74.10	79.56	79.03	75.37	66.21	51.61	29.28	-1.58						
1500.0	93.71 (91.9)	85.2	67.68	72.66	77.19	76.56	79.13	74.53	74.65	65.52	51.16	28.71	-4.04						
1544.7	93.11 (91.4)	84.4	65.92	71.53	76.74	74.70	78.99	77.94	76.87	64.91	50.52	27.99	-4.88						
1523.1	92.51 (90.8)	84.2	65.82	71.43	76.27	77.45	76.44	77.38	73.44	64.20	49.68	26.92	-6.23						
1552.9	91.91 (90.2)	83.7	65.44	70.90	75.48	76.44	76.79	72.92	67.56	64.81	44.81	25.67	-8.13						
1546.3	91.41 (89.7)	83.3	64.04	64.76	75.16	76.27	77.99	76.30	72.36	62.83	47.75	24.65	-10.41						
1655.1	90.91 (89.2)	82.9	63.21	64.74	74.67	75.42	77.92	75.76	71.76	61.49	49.47	22.08	-13.83						

RUN NUMBER	254.000
AIRAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.000
PRIMARY TEMPERATURE (IN)	530.000
SECONDARY TEMPERATURE (IN)	530.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	9.798
VELOCITY RATIO	.749
PRIMARY VELOCITY (FT/SEC)	1324.061
MASS FLOW RATIO	6.307
PRIMARY MASS FLOW (LB/SEC)	.423
THRUST (LBS)	104.383
ENVIRONMENTAL TEMPERATURE (IN)	513.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	64.500
CALIBRATION FACTOR (MV TO DY/SU CM)	.100
INSTRUMENTATION NOISE FLOOR (DB)	69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.54935E+01	141.9	THRUST	POWER LEVEL (DB)
500	2.29568E-01	123.6	10000	161.7
1000	8.86446E-01	129.5	20000	162.7
2000	2.36444E+00	133.7	40000	167.7
4000	3.31452E+00	135.2	80000	170.7
8000	4.05951E+00	136.1		
16000	2.86343E+00	134.6		
31500	1.77559E+00	132.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	103.8	107.8	108.7	107.3	104.6	101.4	97.6	114.1
20.0	102.8	108.1	110.3	109.2	107.9	104.5	100.6	115.4
25.0	101.8	108.0	111.5	110.3	109.1	106.1	102.5	116.7
30.0	99.6	106.2	111.0	111.1	109.3	106.2	103.2	116.6
35.0	97.1	104.3	109.9	112.0	112.5	108.4	105.7	117.8
40.0	95.7	102.2	108.0	110.9	112.3	109.6	105.7	117.0
45.0	93.5	100.3	105.7	109.0	111.2	109.2	105.7	115.6
50.0	91.8	98.8	104.2	106.8	108.9	108.0	105.3	114.1
55.0	90.4	97.8	102.4	105.4	107.6	107.1	105.4	113.1
60.0	91.0	96.7	102.0	104.3	106.3	105.6	104.3	111.9
65.0	90.9	96.3	101.2	103.5	105.0	104.7	103.9	111.0
70.0	90.5	95.7	100.4	102.9	103.9	103.8	103.3	110.2
75.0	90.1	95.5	100.2	102.2	103.2	103.0	102.5	109.6
80.0	89.7	94.6	99.3	101.3	102.4	102.5	102.0	108.8
85.0	89.0	94.3	98.8	101.0	101.8	102.2	101.5	108.4
90.0	88.5	93.9	98.2	100.2	101.3	101.8	101.0	107.9
95.0	88.0	93.6	97.8	99.7	101.1	101.5	100.5	107.5
100.0	87.4	92.7	97.4	99.2	101.3	101.2	100.0	107.2
105.0	86.0	92.3	96.9	98.7	101.2	101.0	99.9	107.0
110.0	86.3	91.6	96.6	98.5	101.7	101.0	99.7	107.0
115.0	85.6	91.0	96.3	98.2	101.8	100.9	99.5	106.9

MODEL THRUST = 104.383

FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 36.1	BAND 72.2	SOUND 144.5	PRESSURE 289.0	LEVELS 577.9	1155.9	2275.7	4551.4	9030.5	18060.9	36121.9
5795.6	82.2 (82.1)	81.2	71.86	75.43	76.44	73.88	69.28	63.12	43.75	14.71	-35.78	-119.02	-242.92
4385.7	87.8 (87.6)	85.1	73.31	76.56	80.57	76.81	75.73	67.88	54.57	31.87	-7.07	-70.79	-145.28
3549.3	91.4 (91.1)	87.9	74.18	80.30	83.63	81.28	79.28	72.72	61.46	42.52	10.43	-41.71	-118.75
3080.0	93.6 (93.2)	89.3	73.45	80.01	84.63	81.26	81.29	75.13	65.69	49.21	21.63	-22.91	-84.49
2615.2	96.7 (96.1)	91.4	72.13	74.25	84.73	80.45	85.45	80.23	70.86	56.11	31.68	-7.53	-65.04
2333.4	97.5 (97.4)	91.5	71.67	74.22	83.84	80.43	85.96	81.30	72.48	57.40	37.27	1.96	-44.76
2121.3	97.8 (96.7)	91.0	70.30	77.15	82.44	85.34	86.72	82.64	74.55	62.02	41.69	9.27	-37.44
1958.1	96.7 (95.7)	89.9	69.38	76.30	81.63	83.94	85.21	82.35	75.48	63.68	44.44	14.52	-24.32
1831.2	96.9 (95.7)	89.4	69.02	75.80	80.39	83.12	84.56	82.23	76.58	65.35	47.35	18.99	-22.20
1737.1	96.6 (95.3)	88.8	68.63	75.29	80.42	82.54	83.85	81.43	76.40	65.62	48.42	21.44	-17.69
1655.1	96.6 (95.2)	88.4	69.00	75.27	80.10	82.17	82.98	81.00	76.67	66.24	49.68	23.75	-13.76
1596.3	96.3 (94.9)	87.9	68.43	75.00	79.82	81.42	82.25	80.54	76.59	66.41	50.33	25.23	-11.07
1552.9	96.0 (94.5)	87.6	69.68	75.01	79.66	81.41	81.82	80.06	76.15	66.18	50.45	25.95	-9.45
1523.1	95.6 (94.1)	87.0	69.43	74.24	78.47	80.67	81.18	79.74	75.69	66.14	50.66	26.57	-8.21
1505.7	95.3 (93.8)	86.7	68.78	74.12	78.57	80.47	80.64	79.59	75.61	65.85	50.51	26.66	-7.75
1500.0	94.7 (93.3)	86.2	68.34	73.70	77.99	79.68	80.27	79.24	75.16	65.42	50.13	26.36	-7.93
1505.7	94.3 (92.8)	85.8	67.80	73.34	77.67	79.16	79.40	78.89	74.61	64.87	49.53	25.68	-6.73
1523.1	93.8 (92.3)	85.4	67.16	72.37	76.39	77.64	78.45	78.45	73.47	64.13	48.65	24.56	-10.22
1552.9	93.3 (91.8)	84.9	66.59	71.87	75.39	77.01	77.79	78.01	73.54	63.57	47.84	23.74	-12.85
1596.3	92.8 (91.4)	84.6	65.57	71.44	75.45	77.47	80.03	77.70	72.49	62.82	46.74	21.64	-15.60
1655.1	92.1 (90.7)	84.2	64.42	69.33	75.22	76.47	79.47	77.24	72.22	61.79	45.22	19.31	-18.22

NUM. HMMER	255.000
AIRAL POSITION (OF PRIMARY WRT. SECONDARY) (INS.)	9.200
PRIMARY TEMPERATURE (IN)	911.000
SECONDARY TEMPERATURE (IN)	525.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	1.200
VELOCITY RATIO	.347
PRIMARY VELOCITY (FT/SEC)	1177.000
MASS FLOW RATIO	.503
PRIMARY MASS FLOW (LB/SEC)	2.70
THRUST (LBS)	7.425
ENVIRONMENTAL TEMPERATURE (RI)	532.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	60.000
CALIBRATION FACTOR (INV TO DY/SQ CM)	.020
INSTRUMENTATION NOISE FLOOR (DB)	55.000

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	3.84144E-01	125.8	THRUST	POWER LEVEL (DB)
500	1.98195E-03	103.0	10000	157.1
1000	1.56003E-02	111.8	20000	160.1
2000	8.39722E-02	119.2	40000	163.2
4000	1.42992E-01	121.6	80000	166.2
8000	9.25205E-02	119.7		
16000	3.52235E-02	115.5		
31500	1.24609E-02	110.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	83.0	91.8	98.5	99.0	93.0	80.3	71.6	102.7
20.0	81.0	91.0	98.0	99.9	94.0	84.2	75.6	103.5
25.0	80.9	90.3	98.2	100.2	95.4	86.7	79.0	103.5
30.0	79.7	89.0	96.9	99.2	95.7	88.3	81.0	102.7
35.0	77.9	86.0	95.1	98.2	95.7	89.9	83.3	101.8
40.0	76.4	85.0	93.1	96.1	95.5	90.9	85.0	100.6
45.0	73.6	82.8	90.4	93.6	93.0	90.4	85.0	98.7
50.0	71.6	80.3	87.7	90.9	92.1	89.5	84.9	96.8
55.0	70.7	78.0	85.5	89.3	91.0	88.5	84.3	95.5
60.0	69.8	77.0	84.0	87.0	89.6	87.5	83.7	94.2
65.0	69.3	76.1	82.8	86.5	88.3	86.3	82.6	93.0
70.0	68.3	75.5	81.9	85.7	87.2	85.2	81.9	92.0
75.0	68.3	75.3	81.0	84.7	86.0	84.2	81.0	91.0
80.0	68.0	74.1	80.3	83.7	85.0	83.4	80.1	90.0
85.0	67.3	73.0	79.7	83.0	84.4	82.6	79.6	89.4
90.0	66.5	73.2	78.9	82.2	83.9	81.9	79.0	88.8
95.0	66.4	72.3	78.3	81.4	83.0	81.2	78.5	88.0
100.0	66.0	71.9	77.4	80.8	82.4	80.4	77.8	87.3
105.0	65.6	71.4	76.6	80.1	81.6	79.7	77.2	86.6
110.0	65.1	70.9	76.0	79.6	81.0	79.1	76.6	86.0
115.0	65.1	70.3	75.7	78.8	80.3	78.4	76.3	85.4

MODEL THRUST = 7.425 FULL SCALE THRUST = 20000.000

L.	PHON.	OASPL	9.6	OCTAVE 19.3	BAND 39.5	SOUND 77.1	PRESSURE 154.1	LEVELS 308.3	606.9	1213.8	2408.4	4816.8	9633.7
8795.4	76.61 (76.1)	82.2	62.61	71.41	78.02	78.48	72.09	58.47	47.47	38.33	21.07	-8.61	-42.09
8785.7	81.51 (80.6)	85.4	63.44	73.78	80.78	81.85	76.42	65.11	54.73	47.08	33.90	10.10	-31.10
8766.3	84.61 (83.4)	87.2	64.79	74.18	82.08	84.01	78.97	69.65	60.45	53.73	42.48	22.65	-11.26
8680.0	86.61 (85.0)	87.9	64.99	74.10	82.20	84.43	80.78	72.90	64.35	58.17	48.21	30.98	1.65
8615.2	88.31 (86.3)	88.2	64.38	73.39	81.44	84.62	82.04	75.74	64.07	62.30	53.23	37.83	12.05
8533.4	89.31 (87.4)	88.0	63.91	72.47	80.63	83.50	82.78	77.08	70.96	65.49	57.67	43.01	19.68
8421.3	89.01 (86.2)	86.9	61.98	71.13	78.69	81.93	82.00	76.10	71.93	66.69	59.76	45.70	24.23
8358.1	88.71 (84.5)	85.6	60.64	69.37	76.44	79.91	80.94	78.01	72.57	67.50	59.95	47.67	27.61
8311.2	88.61 (85.0)	86.9	60.76	67.53	75.09	78.69	80.46	77.21	72.64	67.78	60.45	48.78	29.21
8232.1	87.91 (84.3)	84.2	59.94	67.13	74.08	77.86	76.54	77.14	72.63	67.88	60.78	49.56	31.40
8255.1	87.21 (82.5)	83.2	59.76	66.57	73.29	77.00	75.45	75.19	71.95	67.21	60.38	49.52	32.10
8206.3	86.71 (82.8)	82.7	59.12	64.24	72.74	76.44	77.90	75.64	71.64	66.55	60.24	49.67	32.77
8157.9	86.41 (82.1)	81.9	59.36	64.37	72.71	75.72	76.91	74.40	71.04	66.40	59.79	49.43	32.90
8123.1	85.21 (81.3)	81.2	59.19	63.35	71.51	74.44	76.09	74.20	70.27	65.66	59.12	48.90	32.63
8095.7	84.71 (83.7)	80.7	58.56	65.04	70.94	74.30	75.92	73.52	69.94	65.34	58.85	48.31	32.59
8060.9	84.01 (84.0)	80.0	57.81	64.43	74.24	73.44	75.11	72.49	67.34	64.75	58.27	48.16	32.69
8047.7	83.71 (79.2)	79.2	54.18	61.65	68.66	72.43	74.19	72.13	64.80	60.20	57.71	47.57	31.65
8033.1	82.41 (76.3)	78.4	57.25	63.04	68.57	71.43	73.45	71.24	67.96	63.35	56.81	46.49	30.32
8027.9	81.61 (77.3)	77.6	56.64	62.44	67.67	71.11	72.44	70.33	67.19	62.54	55.94	45.57	29.05
8006.3	80.51 (76.5)	76.8	55.93	61.44	66.00	70.37	71.68	69.46	67.29	61.60	54.90	44.33	27.42
8055.1	79.61 (75.4)	75.8	55.61	60.43	64.15	69.20	70.65	68.52	65.72	60.47	54.12	43.27	25.86

RUN NUMBER	= 256.000
AIRAL POSITION IN PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (IN)	= 922.000
SECONDARY TEMPERATURE (IN)	= 547.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.800
VELOCITY RATIO	= .732
PRIMARY VELOCITY (FT/SEC)	= 1164.173
MASS FLOW RATIO	= 1.176
PRIMARY MASS FLOW (LB/SEC)	= .179
THRUST (LBS)	= 11.638
ENVIRONMENTAL TEMPERATURE (RI)	= 541.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	= 34.000
CALIBRATION FACTOR (IN. TO OY/50 CM)	= .018
INSTRUMENTATION NOISE FLOOR (DB)	= 54.588

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.75964E-01	125.8	THRUST	POWER LEVEL (DB)
500	4.16672E-03	106.2	10000	155.1
1000	2.41554E-02	113.8	20000	158.1
2000	9.27775E-02	119.7	40000	161.1
4000	1.32212E-01	121.2	80000	164.1
8000	7.94920E-02	119.0		
16000	3.10359E-02	114.9		
31500	1.11195E-02	110.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	85.6	93.4	93.6	96.2	87.9	77.3	73.1	99.9
20.0	84.4	93.1	99.0	98.4	90.7	79.9	74.9	102.7
25.0	84.1	92.3	98.5	98.6	92.4	82.6	77.0	102.7
30.0	82.6	91.0	97.9	99.2	94.3	85.4	74.5	102.8
35.0	81.4	89.2	96.0	98.0	95.0	88.0	81.0	101.8
40.0	78.9	87.0	93.7	96.2	94.7	89.4	82.8	100.4
45.0	77.5	85.1	91.9	94.2	93.8	89.7	84.0	99.1
50.0	75.5	83.0	89.3	92.1	92.6	89.3	84.1	97.5
55.0	74.0	81.1	87.6	90.3	91.1	88.3	84.0	96.0
60.0	73.7	80.0	85.8	88.8	89.8	87.4	83.3	94.7
65.0	72.6	79.4	85.1	87.5	88.5	86.2	82.2	93.6
70.0	76.5	78.5	83.8	86.5	87.5	85.5	81.8	92.7
75.0	71.5	77.8	83.1	85.7	86.5	84.6	81.2	91.8
80.0	71.9	77.2	82.4	84.8	85.6	83.7	80.4	90.9
85.0	70.6	76.9	81.7	84.1	84.9	82.8	79.8	90.3
90.0	69.6	75.8	81.1	83.6	84.4	82.4	79.1	89.7
95.0	70.1	75.2	80.2	82.6	83.7	81.6	78.6	88.9
100.0	69.4	74.8	79.6	81.9	83.2	81.5	78.6	88.5
105.0	68.5	74.5	79.0	81.4	82.5	81.0	78.2	87.9
110.0	67.6	73.5	78.2	80.8	81.8	80.2	77.7	87.2
115.0	68.0	72.6	77.9	80.3	81.6	80.3	77.8	87.0

MODEL THRUST = 11.638 FULL SCALE THRUST = 20000.000

L.	PRDB.	OASPL	OCTAVE		BAND	SOUND	PRESSURE	LEVELS					
			12.1	24.1	48.2	96.5	193.0	386.0	759.9	1519.7	3039.3	6078.6	12061.2
5795.6	73.21	72.61	77.4	63.26	71.07	71.24	73.62	64.87	52.93	45.36	34.32	14.22	-22.62
4385.7	79.21	78.51	82.6	64.51	73.18	79.05	78.30	70.23	58.41	50.90	41.82	25.88	-2.73
3549.3	82.51	81.61	84.5	65.97	74.20	80.42	80.63	73.87	63.28	55.59	47.86	34.19	10.47
3000.0	85.01	83.91	86.0	66.01	74.35	81.27	82.46	77.29	67.75	59.08	51.91	40.06	19.55
2615.2	86.61	85.01	86.2	65.91	73.78	80.51	82.63	79.28	71.69	63.16	56.53	45.82	27.55
2333.6	87.51	85.61	85.8	64.47	72.59	79.22	81.64	79.95	74.18	66.19	59.95	50.06	33.44
2121.3	87.91	85.61	85.3	63.87	71.46	78.28	80.48	79.89	75.33	68.44	62.50	53.24	37.85
1958.1	87.71	85.11	84.4	62.60	70.10	76.38	79.08	79.45	75.68	69.37	63.65	54.87	40.44
1831.2	87.31	84.31	83.5	61.63	68.75	75.23	77.99	78.56	75.31	69.99	64.44	58.04	42.35
1732.1	86.41	83.71	82.7	61.80	68.15	75.43	78.84	77.74	74.94	69.88	64.47	58.36	43.25
1655.1	86.11	82.91	81.9	61.17	67.55	75.59	78.92	78.55	74.16	69.21	63.91	58.03	43.37
1596.1	85.71	82.51	81.4	60.36	67.34	72.63	75.75	75.12	73.77	69.16	63.45	58.24	43.92
1552.9	85.31	81.81	80.7	60.50	66.47	72.12	74.71	75.45	73.10	69.40	63.74	58.16	44.09
1523.1	84.61	81.11	80.0	61.13	66.49	71.67	73.97	74.65	72.40	68.26	63.15	55.66	43.76
1505.7	84.01	80.41	79.5	59.96	64.75	71.06	73.45	74.05	71.67	67.74	62.65	55.21	43.41
1500.0	83.41	79.91	78.9	59.03	65.15	70.47	72.42	73.63	71.30	67.08	62.00	54.57	42.82
1505.7	82.41	79.01	78.1	57.49	64.47	69.59	71.45	72.86	70.40	66.40	61.51	54.06	42.27
1523.1	82.31	78.61	77.6	56.64	64.73	68.64	71.15	72.23	70.20	66.44	61.37	53.87	41.94
1552.9	81.51	77.91	76.8	57.64	63.46	68.07	70.41	71.43	69.55	65.81	60.66	53.88	41.01
1596.1	80.51	76.81	75.9	56.46	62.33	67.07	69.55	70.56	68.48	65.04	59.82	52.17	39.79
1655.1	80.11	76.41	75.4	56.49	61.10	66.41	68.83	69.94	68.25	64.84	59.54	51.66	39.00

NO. NUMBER	= 257.000
AXIAL POSITION OF PRIMARY INT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (°F)	= 421.000
SECONDARY TEMPERATURE (°F)	= 545.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 1.000
VELOCITY RATIO	= .884
PRIMARY VELOCITY (FT/SEC)	= 1187.471
MASS FLOW RATIO	= 1.559
PRIMARY MASS FLOW (LB/SEC)	= 1.170
THRUST (LBS)	= 14.854
ENVIRONMENTAL TEMPERATURE (°F)	= 540.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	= 41.000
CALIBRATION FACTOR (MV IN OY/SQ C4)	= .020
INSTRUMENTATION NOISE FLOOR (DB)	= 55.000

OSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.30888E-01	127.3	THRUST	POWER LEVEL (DB)
500	6.23524E-03	107.9	10000	155.5
1000	3.80755E-02	115.8	20000	158.5
2000	1.40560E-01	121.5	40000	161.5
4000	1.64677E-01	122.2	80000	164.6
8000	1.08512E-01	120.4		
16000	5.12114E-02	117.1		
31500	2.16159E-02	113.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	87.6	95.2	99.1	93.3	90.3	83.6	78.7	101.9
20.0	86.9	95.3	99.9	98.2	91.9	85.0	79.8	103.5
25.0	85.4	93.9	99.8	99.3	93.3	86.3	81.8	103.7
30.0	84.1	92.9	99.1	99.5	94.9	88.0	83.1	103.7
35.0	82.6	91.0	97.4	99.1	95.8	89.3	83.8	103.1
40.0	81.2	89.9	95.4	97.5	95.8	90.4	85.1	101.8
45.0	79.1	87.3	93.5	95.4	94.9	90.8	85.7	100.4
50.0	78.0	84.9	91.2	93.7	94.0	91.0	86.7	99.2
55.0	77.0	83.5	89.7	92.0	92.3	90.2	85.9	97.7
60.0	75.1	82.5	88.4	90.9	91.2	89.2	85.6	96.7
65.0	74.3	81.5	87.3	89.6	90.2	88.3	84.9	95.6
70.0	74.5	81.0	86.3	88.5	89.4	87.7	84.5	94.8
75.0	73.8	80.0	85.4	87.9	88.2	86.6	83.6	93.9
80.0	73.0	79.9	85.1	87.2	87.7	86.5	83.6	93.5
85.0	72.9	79.2	84.1	86.4	87.2	85.9	83.1	92.8
90.0	72.7	78.6	83.5	85.6	86.5	85.3	82.8	92.2
95.0	72.3	78.3	82.7	84.9	86.4	85.3	82.5	91.9
100.0	71.4	77.3	82.3	84.7	85.8	84.9	82.4	91.4
105.0	70.7	76.9	81.8	83.9	85.2	84.6	82.4	91.0
110.0	69.9	75.0	81.2	83.6	84.6	83.9	82.0	90.4
115.0	69.6	74.8	80.6	82.9	84.6	84.2	81.5	90.2

MODEL THRUST = 14.854 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE		BAND	SOUND		PRESSURE		LEVELS			
			13.6	27.3	54.5	109.0	218.0	436.0	850.5	1716.9	3406.6	6813.2	13626.3
95.4	73.7 (73.0)	78.3	64.14	71.76	75.65	69.61	66.06	57.80	48.95	36.67	14.28	-26.44	-95.32
85.7	70.8 (70.0)	82.3	65.92	74.26	78.70	77.03	70.27	62.15	54.02	44.00	26.33	-5.21	-50.07
49.3	63.4 (62.3)	84.4	66.21	74.73	80.44	80.00	73.64	65.69	56.77	30.09	35.21	9.11	-34.23
00.0	65.7 (64.3)	85.8	66.41	75.24	81.39	81.70	76.74	69.10	62.15	54.35	41.31	18.79	-18.31
15.2	67.2 (65.6)	86.4	66.26	76.59	81.11	82.45	78.97	71.76	64.45	57.26	45.51	23.49	-7.23
35.6	68.2 (66.3)	86.1	65.65	73.50	79.91	81.89	74.81	74.11	67.06	60.32	49.52	31.33	1.40
21.3	68.5 (66.3)	85.5	64.42	72.84	78.43	80.67	79.89	75.28	64.67	62.27	52.14	35.27	4.26
38.1	68.8 (66.2)	84.9	63.49	70.88	77.20	79.62	79.64	76.25	70.61	64.48	54.93	39.19	13.93
31.2	65.2 (65.4)	84.0	63.64	70.10	76.23	78.54	78.68	76.02	70.49	64.56	55.73	40.51	16.70
32.1	67.9 (64.8)	83.5	62.22	64.43	75.47	77.48	78.10	75.53	70.78	65.00	56.71	41.94	19.25
55.1	67.4 (64.3)	82.9	61.82	64.04	74.78	77.02	77.43	75.00	70.53	64.89	56.35	42.58	20.76
46.3	67.2 (63.9)	82.3	62.30	64.41	75.10	76.24	76.93	74.41	70.57	65.02	56.68	43.29	22.14
59.9	66.5 (63.1)	81.7	61.85	64.41	73.45	75.97	76.02	73.99	69.94	64.46	56.26	43.16	22.50
23.1	66.5 (63.1)	81.5	62.02	64.00	73.29	75.30	75.71	74.11	70.14	64.71	56.61	43.70	23.38
05.7	66.0 (62.5)	80.9	61.19	67.40	72.41	74.59	75.26	73.55	69.77	64.34	56.32	43.52	23.40
00.0	65.5 (61.9)	80.3	61.04	66.44	71.46	73.99	74.65	73.01	69.49	64.09	56.07	43.31	23.26
65.7	65.2 (61.7)	79.9	60.57	66.44	71.01	73.17	74.45	72.97	69.13	63.72	55.68	42.88	22.77
73.1	64.7 (61.2)	79.4	59.58	65.45	70.45	72.44	73.51	72.46	64.60	63.46	55.37	42.45	22.14
57.9	64.2 (60.6)	78.7	58.68	64.46	69.79	71.30	73.00	71.99	64.70	63.21	55.02	41.91	21.26
90.3	63.1 (60.7)	77.9	57.64	63.57	68.94	71.35	72.19	71.06	64.07	62.92	54.18	40.79	19.44
55.1	62.8 (60.3)	77.3	57.04	62.31	68.56	70.29	71.49	71.07	63.77	61.57	53.03	39.28	17.45

RUN NUMBER	258.000
AIRIAL POSITION OF PRIMARY WHT. SECONDARY (1/5.)	4.000
PRIMARY TEMPERATURE (°F)	926.000
SECONDARY TEMPERATURE (°F)	303.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	2.007
VELOCITY RATIO	.386
PRIMARY VELOCITY (FT/SEC)	1180.000
MASS FLOW RATIO	1.036
PRIMARY MASS FLOW (LBS/SEC)	.170
THRUST (LBS)	8.775
ENVIRONMENTAL TEMPERATURE (°F)	542.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	39.000
CALCULATION FACTOR (IN. TO 1/250 CM)	.025
INSTRUMENTATION NOISE FLOOR (DB)	57.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	5.58412E-01	127.5	THRUST	POWER LEVEL (DB)
			10000	158.0
500	2.44312E-03	103.9	20000	161.0
1000	1.71486E-02	112.4	40000	164.1
2000	1.02064E-01	120.1	80000	167.1
4000	2.05768E-01	123.1		
8000	1.50734E-01	121.9		
16000	5.92374E-02	117.7		
31500	2.93017E-02	113.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	84.0	93.0	99.2	100.7	97.2	88.5	81.6	104.5
20.0	82.7	91.9	99.4	101.7	98.2	90.3	83.4	105.2
25.0	81.4	90.9	98.9	101.7	98.3	91.1	84.5	105.1
30.0	80.4	89.5	98.1	101.3	98.4	91.8	85.4	104.7
35.0	78.9	87.3	96.3	99.9	98.0	92.7	86.9	103.7
40.0	76.8	85.5	94.1	97.5	97.1	93.0	87.5	102.1
45.0	75.5	83.2	91.3	94.4	95.8	92.8	87.5	100.4
50.0	73.4	81.0	88.6	92.7	94.1	91.6	87.1	98.6
55.0	71.6	79.4	86.6	90.5	92.5	90.6	86.4	97.0
60.0	70.7	77.5	85.1	89.0	91.0	89.4	85.6	95.7
65.0	70.0	76.8	83.5	87.7	89.6	88.0	84.1	94.3
70.0	69.3	76.2	82.8	86.3	88.1	86.4	82.8	92.9
75.0	69.3	75.6	81.9	85.6	87.2	85.5	82.5	92.1
80.0	69.3	75.0	81.0	84.8	86.3	84.9	81.9	91.3
85.0	68.9	74.1	80.2	83.5	85.2	83.6	80.5	90.2
90.0	67.6	74.1	79.7	82.9	84.6	82.9	79.6	89.5
95.0	67.6	73.7	78.8	82.2	83.8	82.1	79.2	88.8
100.0	67.1	72.4	78.3	81.5	82.7	81.0	78.1	87.9
105.0	66.6	72.1	77.5	80.8	82.3	80.4	77.7	87.3
110.0	65.5	71.5	76.8	80.2	81.4	79.8	77.4	86.6
115.0	65.5	70.5	76.2	79.4	80.9	78.8	76.6	85.9

MODEL THRUST = 8.775 FULL SCALE THRUST = 20000.000

L.	PHON.	OASPL	OCTAVE		BAND	SOUND		PRESSURE		LEVELS				
			10.5	20.9		41.9	83.8	167.6	335.1	659.8	1319.6	2639.2	5278.4	10472.9
5795.6	80.61	79.81	83.2	62.84	71.87	78.01	79.37	75.55	65.75	56.14	46.35	28.62	-4.11	-61.06
4385.7	84.71	83.61	86.3	63.49	73.15	80.70	82.92	74.12	70.35	61.41	53.27	39.13	13.63	-30.20
3549.3	87.21	85.81	90.0	64.72	73.99	81.99	84.72	81.09	73.28	64.93	57.77	45.75	21.55	-11.49
2888.0	89.21	87.51	94.2	65.00	74.05	82.64	85.83	82.73	75.56	64.13	61.61	50.99	32.60	1.68
2415.2	90.11	88.31	99.3	64.72	73.12	82.03	85.61	83.56	77.76	70.64	64.61	54.97	38.56	11.21
2033.4	90.71	88.31	106.7	63.61	72.29	80.49	84.14	83.62	78.15	72.53	66.79	57.86	42.89	18.17
1721.2	90.71	86.01	117.8	63.08	70.40	78.67	82.35	83.26	79.79	73.52	68.03	59.64	45.76	23.61
1458.1	90.71	87.31	126.7	61.64	69.31	76.42	80.93	82.20	79.39	73.94	68.64	60.67	47.62	26.39
1231.2	89.41	86.61	134.7	60.45	68.31	75.44	79.36	81.21	78.93	73.94	68.79	61.14	48.75	21.70
1032.1	89.11	85.81	141.4	60.02	66.56	74.47	78.32	80.24	78.32	73.67	68.64	61.24	49.36	20.23
855.1	88.11	84.81	147.9	59.75	64.61	73.28	77.00	79.24	77.24	72.44	67.72	60.51	49.02	20.51
706.3	87.11	83.71	153.4	59.34	62.23	72.07	75.35	77.04	74.17	71.65	66.78	54.73	44.54	36.68
582.9	86.11	83.01	158.2	59.58	60.91	70.71	73.84	75.37	72.34	71.66	66.84	59.89	48.92	31.47
483.1	85.11	82.51	162.7	59.75	60.47	71.40	75.27	76.65	74.91	71.13	66.34	59.47	48.66	31.48
405.7	85.21	81.41	166.6	59.46	60.70	70.75	73.49	74.69	73.78	69.94	65.19	58.36	47.64	30.82
340.0	84.91	80.71	170.0	59.22	60.74	70.26	73.43	75.04	73.07	69.08	64.32	57.51	46.81	29.85
285.7	83.71	79.81	173.2	58.19	60.24	69.37	72.75	74.21	72.22	68.66	63.88	57.05	46.33	29.11
242.1	82.41	78.51	176.2	57.62	60.01	68.61	71.74	73.00	71.07	67.46	62.67	55.00	44.99	27.61
207.9	81.21	77.51	179.2	56.94	60.14	67.61	71.03	72.48	70.13	66.80	61.98	54.03	44.00	26.81
182.9	80.21	76.81	182.6	56.43	61.54	66.15	70.21	71.14	69.47	66.28	61.41	54.35	43.16	25.30
158.1	79.41	75.51	185.5	55.31	60.25	65.95	69.14	70.14	68.13	65.14	60.20	53.00	41.51	23.10

RUN NUMBER	= 250.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (°F)	= 927.000
SECONDARY TEMPERATURE (°F)	= 250.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 2.000
VELOCITY RATIO	= 0.730
PRIMARY VELOCITY (FT/SEC)	= 1107.340
MASS FLOW RATIO	= 2.315
PRIMARY MASS FLOW (LBS/SEC)	= 0.170
THRUST (LBS)	= 16.950
ENVIRONMENTAL TEMPERATURE (°F)	= 942.000
ENVIRONMENTAL PRESSURE (IN. HG)	= 29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	= 37.000
CALIBRATION FACTOR (MV TO DY/50 CM)	= 0.025
INSTRUMENTATION NOISE FLOOR (DB)	= 58.500

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	9.04756E-01	129.6	THRUST	POWER LEVEL (DB)
500	6.08471E-03	107.8	10000	157.3
1000	3.29157E-02	115.0	20000	160.3
2000	1.03030E-01	122.1	40000	163.3
4000	3.10007E-01	124.9	80000	166.3
8000	2.67667E-01	123.9		
16000	1.02168E-01	120.1		
31500	3.63001E-02	115.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	16000	31500	OVER
		1000	2000	4000	8000				ALL
15.0	87.5	95.1	99.5	100.2	97.0	89.0	82.6	104.7	
20.0	82.2	94.6	100.6	102.0	98.7	91.1	84.7	106.0	
25.0	85.5	93.7	100.7	103.3	100.3	93.0	86.8	106.9	
30.0	84.4	92.5	99.8	102.9	100.4	90.3	88.5	109.6	
35.0	82.7	91.0	97.8	101.7	100.1	94.6	89.0	105.6	
40.0	81.1	89.1	96.4	99.8	99.5	95.4	90.2	104.5	
45.0	79.5	87.5	93.9	97.4	97.9	94.7	89.9	102.7	
50.0	77.7	85.6	92.1	95.4	96.3	93.9	89.4	101.2	
55.0	76.8	84.6	90.2	93.2	94.7	92.5	88.3	99.5	
60.0	76.1	83.3	89.1	92.3	93.5	91.6	87.2	98.5	
65.0	75.7	82.6	87.9	91.0	92.2	90.3	86.5	97.2	
70.0	76.3	81.8	87.1	90.1	91.1	89.3	85.9	96.3	
75.0	75.0	81.5	86.6	89.0	90.1	88.2	84.7	95.3	
80.0	74.8	81.1	86.0	88.1	89.4	87.6	84.0	94.6	
85.0	73.9	80.5	85.6	87.7	88.6	86.8	83.5	94.0	
90.0	74.1	80.2	84.8	87.1	88.3	86.4	83.2	93.6	
95.0	73.4	79.6	84.1	86.3	87.6	85.7	82.3	92.8	
100.0	72.5	79.6	83.9	85.7	87.1	85.7	82.5	92.5	
105.0	72.3	79.1	83.5	85.0	86.4	85.0	81.2	91.9	
110.0	71.0	77.8	82.9	84.8	86.4	85.1	82.0	91.7	
115.0	71.3	76.8	82.0	84.2	86.3	84.6	81.3	91.2	

MODEL THRUST = 16.950 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
			14.6	29.1	58.2	116.4	232.9	465.8	917.2	1834.1	3639.0	7278.1	14556.1
1795.6	70.91	74.41	80.3	63.47	71.12	75.48	75.97	72.11	62.36	51.73	38.72	15.00	-27.95 -100.06
1585.7	83.91	82.91	84.1	60.62	72.98	74.44	80.25	76.40	67.54	57.86	47.29	28.60	-4.63 -59.92
1549.3	87.51	86.51	86.9	65.82	73.95	80.91	83.35	80.04	71.66	62.83	53.70	38.00	18.54 -39.79
1000.0	89.51	88.21	88.0	66.10	74.27	81.48	84.49	81.63	74.70	66.65	58.47	44.74	21.06 -17.71
2615.2	90.21	89.01	88.2	65.67	73.96	80.65	84.48	82.66	76.33	68.83	61.31	48.94	27.93 -6.25
2333.6	91.31	89.51	88.1	64.84	72.99	80.30	83.56	83.06	78.24	71.38	64.35	53.00	33.91 3.09
2121.3	91.11	89.81	87.1	64.27	72.27	78.62	82.01	82.31	78.47	72.13	65.47	54.88	31.26 6.97
1950.1	90.71	89.11	86.3	63.09	71.02	77.49	80.76	81.48	78.41	72.48	66.10	56.10	39.60 13.25
1831.2	89.91	87.11	85.2	62.83	70.66	76.17	79.16	80.46	77.48	72.17	66.01	56.98	48.84 16.01
1732.1	89.41	86.51	84.7	62.58	69.83	75.55	78.76	79.87	77.30	71.68	65.69	56.50	41.56 17.91
1652.1	88.71	85.61	83.8	62.59	68.49	74.79	77.81	78.84	76.45	71.42	65.57	56.65	42.24 19.50
1596.3	88.21	85.01	83.2	63.68	68.99	74.31	77.25	78.03	75.78	71.20	65.44	56.74	42.73 20.70
1552.9	87.41	84.21	82.5	62.50	68.91	74.08	76.34	77.32	74.96	70.26	64.50	56.82	42.32 20.80
1523.1	86.91	83.71	82.0	62.45	68.74	73.62	75.69	76.79	74.52	69.83	64.21	55.76	42.26 21.10
1505.7	86.31	83.11	81.5	61.41	68.25	73.27	75.35	76.07	73.87	69.47	63.82	55.44	42.04 21.10
1500.0	86.01	82.71	81.0	61.89	67.91	72.58	74.73	75.81	73.50	69.18	63.59	55.23	41.89 21.00
1505.7	85.21	81.91	80.3	61.16	67.17	71.76	73.81	75.10	72.78	68.24	62.64	54.26	40.88 19.92
1523.1	85.41	81.21	79.4	60.17	67.25	71.66	73.74	74.87	72.47	68.24	62.65	54.70	40.78 19.54
1552.9	84.11	80.71	78.1	59.71	66.52	70.93	72.17	73.44	71.74	67.76	62.08	53.52	39.82 18.30
1596.3	83.71	80.41	78.6	58.10	65.04	70.09	71.49	73.33	71.58	67.30	61.55	52.84	38.84 18.80
1652.1	82.71	79.51	77.6	58.21	63.66	68.84	71.02	72.55	70.76	66.74	60.38	51.46	37.05 18.32

RUN NUMBER	= 260.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	= 9.400
PRIMARY TEMPERATURE (R)	= 422.000
SECONDARY TEMPERATURE (R)	= 503.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 2.007
VELOCITY RATIO	= .881
PRIMARY VELOCITY (FT/SEC)	= 1164.133
MASS FLOW RATIO	= 3.422
PRIMARY MASS FLOW (LB/SEC)	= .170
THRUST (LBS)	= 22.902
ENVIRONMENTAL TEMPERATURE (R)	= 539.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	= 43.000
CALIBRATION FACTOR (MV TO DY/SEC CM)	= .036
INSTRUMENTATION NOISE FLOOR (DB)	= 60.584

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JLT

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.80213E+00	132.6	THRUST	POWER LEVEL (DB)
500	1.18279E-02	110.7	10000	159.0
1000	7.07385E-02	118.5	20000	162.0
2000	2.87194E-01	124.6	40000	165.0
4000	5.51338E-01	127.4	80000	168.0
8000	5.23535E-01	127.2		
16000	2.57430E-01	124.1		
31500	1.00063E-01	120.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.0	97.0	100.7	100.6	98.3	93.5	87.3	106.0
20.0	89.1	97.0	102.0	103.0	101.3	95.7	89.7	107.8
25.0	88.0	96.0	102.5	104.5	102.6	96.8	91.2	108.7
30.0	85.9	94.6	101.6	104.9	103.3	97.7	92.0	108.9
35.0	85.3	93.4	100.7	104.6	103.6	98.6	93.0	108.7
40.0	83.6	91.6	98.9	102.5	102.7	98.9	93.6	107.6
45.0	81.7	90.1	97.0	100.5	101.2	98.4	93.9	106.0
50.0	80.9	88.6	95.1	98.4	99.4	97.4	93.2	104.4
55.0	79.3	87.3	93.4	97.0	98.4	96.5	92.6	103.2
60.0	78.0	86.6	92.4	95.4	96.9	95.2	91.6	101.9
65.0	76.3	85.9	91.3	94.4	95.8	94.1	90.5	100.8
70.0	76.4	85.4	91.1	93.9	95.0	93.2	89.4	100.1
75.0	77.9	84.9	90.3	92.5	93.7	92.5	89.6	99.2
80.0	77.9	84.7	90.0	92.1	93.0	91.5	88.4	98.5
85.0	77.0	84.4	89.3	91.5	92.8	91.4	88.2	98.1
90.0	76.8	83.7	89.0	91.1	92.4	90.9	87.9	97.7
95.0	76.6	83.6	88.2	90.5	91.9	90.8	88.2	97.4
100.0	75.9	83.0	87.9	89.5	91.0	90.4	87.4	96.7
105.0	75.4	82.7	87.4	89.3	91.1	91.5	88.4	97.1
110.0	74.5	81.4	87.2	89.3	90.9	90.9	88.2	96.7
115.0	74.3	80.3	86.5	88.9	91.2	91.2	88.5	96.7

MODEL THRUST = 22.902 FULL SCALE THRUST = 20000.000

L.	PNOR.	OASPL	16.9	OCTAVE 33.8	BAND 67.7	SOUND 135.4	PRESSURE 270.7	LEVELS 541.4	1065.4	2131.9	4230.0	8459.0	16919.0
5795.6	79.8 (79.2)	80.1	64.67	71.71	75.34	75.12	71.87	64.94	53.60	38.75	11.69	-36.70	-116.48
4385.7	85.6 (84.8)	84.4	66.21	74.07	77.01	74.87	77.55	70.31	60.41	48.44	27.23	-10.11	-71.22
3549.3	89.2 (88.2)	87.3	66.95	74.98	81.39	83.23	80.89	73.71	64.95	54.69	36.96	6.16	-43.86
3000.0	91.4 (90.2)	89.9	66.34	75.05	81.43	85.14	83.16	76.41	68.10	58.96	43.51	17.02	-25.73
2615.2	93.1 (91.6)	89.9	66.88	74.97	82.30	86.02	84.68	78.69	70.78	62.53	48.57	25.09	-12.56
2333.6	93.6 (91.9)	89.8	66.20	74.21	81.43	85.37	84.88	80.17	72.79	65.02	52.33	31.06	-2.66
2121.3	93.5 (91.4)	89.0	65.89	73.54	80.38	83.79	84.21	80.66	74.25	66.91	55.11	35.9	4.39
1958.1	92.4 (90.5)	88.0	64.99	72.74	79.20	82.44	83.13	80.45	74.48	67.47	56.34	38.81	9.07
1831.2	92.6 (90.1)	87.4	64.04	72.01	78.08	81.54	82.77	80.18	74.60	67.85	57.25	39.91	12.65
1732.1	91.9 (89.2)	86.6	64.18	71.43	77.56	80.52	81.80	79.42	74.26	67.71	57.52	40.96	15.01
1655.1	91.4 (88.6)	86.0	63.85	71.52	76.85	79.93	81.02	78.72	73.67	67.28	57.41	41.45	15.53
1590.3	91.1 (88.2)	85.6	64.36	71.32	76.44	79.07	80.55	78.21	73.34	67.08	57.45	41.95	17.80
1552.4	90.9 (87.4)	84.9	64.02	71.02	76.37	78.58	79.57	77.72	73.48	67.30	57.85	42.69	19.12
1521.1	89.4 (86.9)	84.4	64.19	71.00	76.32	78.33	79.04	76.92	72.49	66.37	57.05	42.12	18.94
1505.7	89.7 (86.7)	84.2	63.46	70.40	75.49	77.45	78.48	76.91	72.42	66.34	57.04	42.29	19.34
1500.0	89.3 (86.3)	83.8	63.27	70.12	75.47	77.42	78.59	76.46	72.15	66.08	56.85	42.11	19.23
1504.7	89.0 (85.9)	83.6	63.02	69.94	75.42	76.78	78.03	76.35	72.42	66.34	57.04	42.29	19.34
1523.1	88.3 (85.2)	82.6	62.70	69.72	75.23	75.75	77.05	75.87	71.88	65.76	56.44	41.51	18.33
1557.4	88.0 (85.6)	82.8	61.52	68.79	73.44	75.34	76.48	76.73	72.76	66.58	57.13	41.97	18.40
1596.7	86.0 (84.8)	82.1	60.46	67.25	73.05	75.10	76.46	75.93	71.78	65.51	55.88	40.38	16.24
1655.1	87.7 (84.6)	81.8	59.85	65.90	72.07	74.35	76.51	75.82	71.47	65.29	55.42	39.46	14.53

RUN NUMBER	201.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.800
PRIMARY TEMPERATURE (°F)	924.000
SECONDARY TEMPERATURE (°F)	550.000
PRIMARY PRESSURE RATIO	1.400
AREA RATIO	4.854
VELOCITY RATIO	0.382
PRIMARY VELOCITY (FT/SEC)	1185.017
MASS FLOW RATIO	2.849
PRIMARY MASS FLOW (LB/SEC)	1173
THRUST (LBS)	13.077
ENVIRONMENTAL TEMPERATURE (°F)	592.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	36.000
CALIBRATION FACTOR (MV TO DY/57 CM)	0.010
INSTRUMENTATION NOISE FLOOR (DB)	54.580

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	3.14764E-01	125.0	THRUST POWER LEVEL(DB)
500	4.45902E-03	106.5	10000 153.8
1000	2.66376E-02	114.3	20000 156.8
2000	8.93605E-02	119.5	40000 159.8
4000	1.03246E-01	120.1	80000 162.8
8000	6.17872E-02	117.9	
16000	2.21821E-02	113.5	
31500	7.09176E-03	108.5	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	86.9	94.7	98.4	95.5	86.4	71.6	69.1	101.7
20.0	85.5	93.8	98.7	97.6	98.0	76.8	71.1	102.3
25.0	84.3	92.9	98.3	98.3	92.4	81.6	73.6	102.5
30.0	83.1	91.3	97.1	98.0	93.7	85.1	77.1	102.0
35.0	81.0	89.6	95.7	97.2	94.5	87.6	80.3	101.3
40.0	79.3	87.3	93.4	94.8	94.0	89.1	82.5	99.7
45.0	77.4	85.1	91.0	92.6	92.8	89.1	83.4	98.0
50.0	76.2	82.9	88.5	90.5	91.2	88.2	82.9	96.2
55.0	75.1	81.2	86.5	89.0	89.6	86.7	82.0	94.7
60.0	73.5	79.2	85.0	87.4	88.2	85.7	81.5	93.3
65.0	72.8	78.9	83.7	86.0	87.0	84.4	80.2	92.1
70.0	72.1	78.1	82.7	85.1	85.8	83.1	79.4	91.0
75.0	71.9	77.2	82.1	84.1	84.8	82.2	78.6	90.1
80.0	71.0	76.9	81.3	83.2	83.8	81.3	77.3	89.2
85.0	71.0	76.5	80.6	82.7	83.2	80.6	77.1	88.6
90.0	70.6	75.6	79.7	81.5	82.1	79.5	76.4	87.6
95.0	69.6	75.2	79.0	81.0	81.3	78.8	75.5	86.9
100.0	69.1	74.6	78.6	80.1	80.7	78.4	75.3	86.4
105.0	68.6	73.7	77.7	79.4	80.0	77.4	74.6	85.6
110.0	68.6	72.8	77.0	79.0	79.4	77.0	74.4	85.0
115.0	68.0	72.4	76.6	78.5	78.7	76.2	74.1	84.5

MODEL THRUST = 13.077 FULL SCALE THRUST = 40000.000

L.	PNOB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
			9.0	18.1	36.2	72.3	144.6	289.3	569.6	1139.1	2260.1	4520.3	9040.6
8795.6	73.7(73.0)	81.8	67.01	74.89	78.47	75.94	66.18	50.42	45.68	37.01	21.46	-7.41	-58.38
4385.7	78.9(78.1)	84.8	68.07	76.33	81.25	80.13	72.21	58.42	51.00	43.70	31.21	8.63	-30.65
3549.3	82.6(81.6)	86.8	68.67	77.27	82.73	82.64	76.55	65.19	55.85	49.37	38.69	19.85	-12.51
3000.0	85.3(83.9)	87.8	68.96	77.20	82.98	83.80	79.40	70.26	61.17	55.23	45.73	29.34	1.53
2615.2	87.4(85.6)	88.2	68.08	76.52	82.74	84.17	81.35	74.07	65.75	60.19	51.52	38.85	12.22
2333.6	83.3(80.1)	87.7	67.40	75.38	81.46	82.64	81.44	76.67	69.12	63.84	55.78	42.37	20.06
2121.3	84.5(83.7)	89.3	66.27	73.96	79.83	81.44	81.52	77.54	71.00	65.93	58.33	45.97	25.32
1958.1	84.1(83.1)	89.7	65.73	72.43	78.07	80.05	80.80	77.39	71.26	66.34	59.10	47.36	28.16
1831.2	87.4(84.1)	84.7	65.29	71.32	76.44	79.07	79.63	76.42	71.03	66.24	59.27	48.10	29.95
1732.1	86.9(83.5)	83.9	64.14	69.49	75.65	78.04	78.73	75.96	71.04	66.35	59.60	48.87	31.54
1655.1	86.1(82.5)	83.0	63.85	69.92	74.71	76.79	77.91	74.99	70.18	65.56	58.99	48.59	31.20
1596.3	85.3(81.6)	82.3	63.43	69.45	74.00	76.39	77.01	74.07	69.73	65.17	58.71	48.59	32.38
1552.9	84.7(80.9)	81.7	63.47	68.43	73.68	75.71	76.24	73.43	69.27	64.75	58.38	48.45	32.61
1523.1	83.9(80.1)	80.9	62.81	68.65	73.01	74.96	75.46	72.71	68.14	63.68	57.35	47.55	31.95
1505.7	83.4(79.6)	80.5	62.91	68.39	72.45	74.51	74.91	72.12	68.07	63.60	57.34	47.62	32.10
1500.0	82.4(78.5)	79.5	62.50	67.42	71.57	73.38	73.43	71.07	67.35	62.88	56.63	46.94	31.53
1505.7	81.6(77.7)	78.4	61.50	67.07	70.55	72.82	73.02	70.31	64.49	62.01	55.75	46.03	30.58
1523.1	81.0(77.1)	78.1	60.77	66.39	70.32	71.82	72.40	69.42	64.16	61.67	55.37	45.57	29.87
1552.9	79.9(75.9)	77.1	60.14	65.25	69.24	70.94	71.48	68.67	63.28	60.75	54.39	44.46	28.62
1546.3	79.1(75.1)	76.4	59.31	64.12	68.37	70.32	70.63	67.97	64.77	60.20	53.74	43.62	27.42
1655.1	78.2(74.1)	75.5	58.99	63.62	67.66	69.50	69.66	66.93	64.19	59.94	52.96	42.57	25.88

RUN NUMBER	=	263.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	9.800
PRIMARY TEMPERATURE (IN)	=	920.000
SECONDARY TEMPERATURE (R)	=	945.000
PRIMARY PRESSURE RATIO	=	1.000
AREA RATIO	=	4.056
VELOCITY RATIO	=	0.884
PRIMARY VELOCITY (FT/SEC)	=	1182.848
MASS FLOW RATIO	=	7.955
PRIMARY MASS FLOW (LB/SEC)	=	168
THRUST (LBS)	=	49.673
ENVIRONMENTAL TEMPERATURE (R)	=	536.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.710
ENVIRONMENTAL HUMIDITY (PER CENT)	=	44.000
CALIBRATION FACTOR (INV TO DY/50 CM)	=	0.040
INSTRUMENTATION NOISE FLOOR (DB)	=	61.577

DUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.35092E+00	133.7	THRUST	POWER LEVEL (DB)
500	6.40877E-02	118.1	10000	156.8
1000	2.42695E-01	123.9	20000	159.8
2000	5.88861E-01	127.7	40000	162.8
4000	6.61557E-01	128.2	80000	165.8
8000	4.45373E-01	126.5		
16000	2.43649E-01	123.9		
31500	1.94698E-01	120.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	2000	SOUND PRESSURE LEVELS	4000	8000	16000	31500	OVER ALL
15.0	98.4	103.6	103.2	99.8	95.5	89.8	85.6	108.1	
20.0	97.6	103.0	104.4	101.6	96.2	91.5	87.3	108.7	
25.0	96.0	102.1	104.8	102.0	97.5	92.6	88.2	108.7	
30.0	94.7	100.3	104.4	102.9	98.8	94.4	89.7	108.6	
35.0	92.7	98.9	103.3	103.2	99.8	95.5	90.8	108.2	
40.0	89.9	96.8	101.9	102.6	100.5	96.6	92.2	107.5	
45.0	88.6	94.9	100.3	101.5	100.5	97.4	93.0	106.8	
50.0	86.4	93.2	98.9	100.7	100.0	97.4	93.6	106.0	
55.0	85.2	91.8	97.5	99.6	99.1	96.6	93.3	105.0	
60.0	84.5	91.1	96.7	98.7	98.0	95.8	93.0	104.1	
65.0	84.2	90.4	96.1	98.2	97.3	95.2	92.2	103.5	
70.0	83.7	89.5	95.1	97.4	96.5	94.3	91.5	102.6	
75.0	83.8	88.8	94.3	96.7	95.7	93.9	90.8	102.0	
80.0	83.8	88.2	93.9	96.2	95.5	93.4	90.0	101.5	
85.0	82.5	87.6	93.1	95.7	95.0	93.0	89.5	101.0	
90.0	81.6	86.8	92.6	95.5	94.5	92.7	89.1	100.6	
95.0	81.7	86.4	92.1	95.0	94.1	92.5	88.7	100.2	
100.0	81.0	85.8	91.8	95.2	93.9	92.2	88.5	100.1	
105.0	80.1	85.6	91.5	94.7	93.7	92.0	88.2	99.8	
110.0	82.1	84.7	91.5	94.2	93.5	91.9	88.0	99.5	
115.0	79.6	84.2	91.4	94.5	93.4	91.9	87.8	99.5	

MODEL THRUST = 49.673 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE BAND	SOUND PRESSURE LEVELS	24.9	49.8	99.7	199.3	398.7	797.4	1595.8	3139.7	6229.5	12459.1	24918.2
795.6	77.0 (76.8)	79.1	69.75	74.88	74.37	70.45	62.73	55.46	43.02	22.05	-15.50	-40.16	-101.55		
385.7	81.9 (81.6)	82.1	71.33	76.75	78.03	74.85	68.37	60.99	50.49	33.89	4.75	-44.91	-122.37		
549.3	84.9 (84.2)	84.0	71.64	77.72	80.24	77.21	71.86	64.75	55.30	41.29	17.13	-23.83	-86.88		
600.0	87.2 (86.5)	85.3	71.75	77.34	81.35	74.62	74.76	68.55	59.53	47.23	26.34	-8.57	-62.50		
615.2	89.0 (88.1)	86.0	70.98	77.09	81.46	81.17	77.11	71.21	62.81	51.70	33.11	2.29	-45.11		
333.6	90.1 (89.0)	86.3	69.16	76.04	81.08	81.55	78.87	73.59	65.90	55.55	38.64	10.82	-31.80		
121.3	91.0 (89.7)	86.2	68.68	74.98	80.30	81.32	79.83	75.45	67.95	58.37	42.72	17.16	-21.86		
358.1	91.5 (89.6)	86.1	67.19	73.94	79.63	81.23	80.06	76.27	69.67	60.60	45.92	22.09	-14.15		
831.2	91.3 (89.6)	85.7	66.53	73.18	78.78	80.74	79.79	76.15	70.25	61.57	47.65	25.17	-9.02		
732.1	91.1 (89.3)	85.3	66.32	72.88	78.46	80.29	79.23	75.98	70.71	62.34	49.01	27.59	-4.82		
655.1	90.3 (89.1)	85.1	66.40	72.63	78.23	80.23	78.97	75.84	70.41	62.27	49.41	28.40	-2.30		
546.3	90.5 (89.5)	84.6	66.27	72.01	77.55	79.73	78.43	75.32	70.19	62.24	49.72	29.74	-0.36		
552.9	90.1 (88.1)	84.2	66.62	71.61	77.07	79.34	77.83	75.17	69.89	62.07	49.82	30.34	1.93		
523.1	89.8 (87.9)	83.9	65.73	71.16	76.76	79.01	77.50	74.85	69.25	61.53	49.45	30.24	1.39		
505.7	89.4 (87.5)	83.4	65.57	70.60	76.07	78.53	77.51	74.80	68.92	61.25	49.27	30.25	1.69		
500.0	89.0 (87.0)	83.1	64.84	69.91	75.59	78.37	77.03	74.30	68.57	60.91	48.97	30.01	1.55		
505.7	88.6 (86.6)	82.6	64.76	69.45	75.05	77.83	76.61	74.09	68.10	60.63	48.65	29.64	1.87		
523.1	88.2 (86.3)	82.4	63.91	68.71	74.74	77.96	76.29	73.68	67.74	60.02	47.94	28.73	-1.12		
552.9	87.8 (85.8)	81.9	62.93	68.35	74.25	77.34	75.93	73.24	67.24	59.66	47.70	27.68	-1.68		
594.3	87.2 (85.4)	81.4	64.66	67.20	73.66	76.51	75.45	72.90	66.71	58.74	46.24	26.26	-3.84		
655.1	86.7 (84.9)	81.1	61.85	66.44	73.59	76.46	75.02	72.52	66.02	57.88	45.02	24.41	-6.69		

RUN NUMBER	= 204.000
ARIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 925.000
SECONDARY TEMPERATURE (R)	= 847.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 9.788
VELOCITY RATIO	= .381
PRIMARY VELOCITY (FT/SEC)	= 1186.058
MASS FLOW RATIO	= 5.438
PRIMARY MASS FLOW (LB/SEC)	= .168
THRUST (LBS)	= 19.052
ENVIRONMENTAL TEMPERATURE (R)	= 840.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.670
ENVIRONMENTAL HUMIDITY (PER CENT)	= 38.000
CALIBRATION FACTOR (WTS TO 0.734 CMT)	= .025
INSTRUMENTATION NOISE FLOOR (DB)	= 57.607

OSTIC POWER AND SOUND POWER LEVEL FOR MODEL JLT

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.62896E-01	120.2	THRUST	POWER LEVEL (DB)
500	4.70031E-03	106.7	10000	155.4
1000	2.25544E-02	113.7	20000	158.4
2000	1.03628E-01	120.2	40000	161.4
4000	2.24499E-01	123.5	80000	164.4
8000	1.94403E-01	122.9		
16000	0.50435E-02	111.4		
31500	2.75178E-02	114.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	SOUND PRESSURE LEVELS	OVERALL
			1000 2000 4000 8000 16000 31500	REL
15.0	65.7	92.8	97.3 97.3 94.2 90.0 86.0	102.2
20.0	64.8	92.5	98.6 100.9 97.3 90.0 85.3	104.6
25.0	63.9	91.7	99.0 101.0 98.9 92.3 86.0	105.5
30.0	62.4	90.0	98.0 101.6 99.8 94.8 89.0	105.5
35.0	61.5	89.7	96.0 100.9 100.2 95.5 89.1	105.2
40.0	59.9	87.3	94.2 98.4 95.6 90.1 84.6	103.4
45.0	58.6	86.6	91.7 95.8 91.1 86.5 80.3	101.6
50.0	57.4	83.6	89.7 93.9 95.3 93.1 86.7	99.9
55.0	56.2	82.0	87.7 91.7 93.9 92.2 87.5	98.4
60.0	55.5	80.8	86.4 90.3 92.1 90.3 86.0	96.8
65.0	54.5	79.9	85.3 89.2 90.5 89.1 85.1	95.6
70.0	54.3	79.4	84.4 88.0 89.6 87.7 84.1	94.4
75.0	53.4	78.9	83.4 86.9 88.3 86.7 82.9	93.3
80.0	53.2	78.5	83.0 86.0 87.2 85.5 81.9	92.4
85.0	52.7	77.9	82.1 84.9 86.2 84.0 80.3	91.2
90.0	51.4	77.6	81.7 84.1 85.5 83.3 80.0	90.6
95.0	51.9	77.0	81.1 83.3 84.3 82.2 79.0	89.6
100.0	51.0	76.7	80.4 82.5 83.6 81.4 78.3	88.9
105.0	50.0	75.4	79.7 81.9 82.7 80.0 77.9	88.2
110.0	49.6	74.8	78.8 81.3 81.9 79.8 77.2	87.4
115.0	49.0	74.1	78.0 80.8 81.3 79.0 76.6	86.9

MODEL THRUST = 19.052 FULL SCALE THRUST = 20000.000

LT	PNDB	OASPL	OCTAVE BAND	SOUND PRESSURE LEVELS	OVERALL
			15.4 30.9 61.7 123.5 246.9 493.8 972.2	1944.4 3858.0 7716.0 15432.1	
5795.6	75.6 (75.0)	77.4	61.17 67.70 72.70 73.14 68.75 58.63 48.00	34.31 9.33 -35.67 -110.70	
6388.7	81.9 (81.2)	82.1	62.09 70.41 76.07 78.59 74.49 65.78 55.08	44.49 24.06 -9.93 -67.48	
6848.3	85.8 (84.8)	84.9	63.66 71.44 78.70 81.59 74.08 70.52 61.18	51.63 35.17 6.45 -80.66	
7000.0	86.9 (87.1)	86.3	63.59 71.20 79.10 82.08 74.53 70.38 60.38	57.03 43.55 18.71 -71.57	
8618.2	90.1 (88.6)	87.2	63.91 71.13 79.03 83.21 82.20 76.60 68.18	60.36 47.44 25.49 -10.01	
8339.0	90.2 (88.2)	86.4	63.20 70.79 78.50 81.73 81.01 74.33 70.09	62.73 50.78 30.97 -71.03	
8121.3	89.8 (87.5)	85.4	63.04 69.04 75.93 74.94 81.02 77.67 70.83	63.91 52.87 34.50 5.13	
7550.1	89.1 (86.6)	84.4	62.38 68.32 74.82 78.71 78.95 77.05 71.19	64.54 54.11 38.92 9.58	
7031.2	88.4 (85.7)	83.5	61.69 67.50 73.15 77.10 74.06 74.79 70.67	64.29 54.35 38.07 12.32	
7332.1	87.3 (84.5)	82.3	61.47 66.80 72.38 76.17 77.79 75.61 69.76	63.56 53.99 38.44 13.01	
7655.1	86.7 (83.7)	81.6	60.39 66.30 71.70 75.68 76.95 74.63 69.34	63.32 54.05 39.05 14.68	
7396.3	85.9 (82.0)	80.8	60.44 66.13 71.34 74.98 76.04 73.51 68.79	62.05 53.00 39.23 14.39	
7552.9	85.0 (81.9)	79.9	60.34 65.86 70.36 73.75 75.01 72.86 67.86	62.00 53.11 38.86 14.56	
7223.1	84.1 (81.0)	79.2	60.27 65.53 70.08 72.98 74.05 71.89 67.10	61.25 52.51 38.47 14.54	
7505.7	83.0 (79.0)	78.1	59.47 65.10 69.31 72.03 73.13 70.48 65.61	59.03 51.12 37.21 15.49	
7000.0	82.4 (78.2)	77.5	59.10 64.79 68.42 71.26 72.40 69.81 65.24	59.32 50.73 36.98 15.32	
7505.7	81.2 (78.3)	76.6	59.07 64.22 68.34 70.42 71.24 68.64 64.27	58.49 49.78 35.87 14.15	
7523.7	80.3 (77.7)	75.8	58.09 63.79 67.52 69.92 70.44 67.78 63.50	57.69 49.42 34.88 12.95	
7552.9	79.3 (76.1)	74.8	56.43 62.74 66.58 64.76 69.40 66.77 62.84	56.47 48.08 33.83 11.53	
7396.3	78.1 (75.0)	73.8	56.34 61.44 65.40 67.93 68.30 65.75 61.87	55.86 46.81 32.24 9.40	
7655.1	77.1 (74.0)	72.9	56.03 60.51 65.01 67.06 67.40 64.58 60.69	54.84 45.56 30.57 7.00	

RUN NUMBER	265.00 (750,000)
AXIAL POSITION OF PRIMARY (RT. SECONDARY (INS.))	9.800
PRIMARY TEMPERATURE (IN)	923.000
SECONDARY TEMPERATURE (IN)	537.000
PRIMARY PRESSURE (PSI)	1.800
AREA RATIO	9.788
VELOCITY RATIO	.725
PRIMARY VELOCITY (FT/SEC)	1184.775
MASS FLOW RATIO	17.663
PRIMARY MASS FLOW (LB/SEC)	.168
THRUST (LBS)	58.583
ENVIRONMENTAL TEMPERATURE (IN)	536.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.670
ENVIRONMENTAL HUMIDITY (PER CENT)	38.000
CALIBRATION FACTOR (IN TO 0.750 CM)	.7045
INSTRUMENTATION NOISE FLOOR (DB)	62.585

OSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.52882E+00	134.0	THRUST	POWER LEVEL (DB)
500	4.87462E-02	116.9	10000	156.4
1000	2.23439E-01	123.5	20000	159.4
2000	5.16935E-01	127.1	40000	162.4
4000	7.11425E-01	128.5	80000	165.4
8000	6.41179E-01	128.1		
16000	2.07230E-01	124.0		
31500	9.98463E-02	120.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	96.3	100.0	100.0	96.7	95.7	94.0	89.5	107.0
20.0	95.3	101.3	102.6	101.2	98.7	93.1	88.0	107.7
25.0	93.9	100.6	103.8	102.8	100.0	95.2	90.4	108.5
30.0	92.5	98.9	103.6	104.7	102.8	98.2	92.9	109.6
35.0	91.1	98.0	103.1	105.4	105.1	100.0	94.0	110.5
40.0	89.3	96.4	101.5	104.3	104.6	100.1	93.6	109.4
45.0	87.9	94.7	100.2	102.4	103.1	97.9	91.5	108.1
50.0	86.7	92.9	98.0	100.3	100.8	98.2	93.5	106.1
55.0	85.6	92.4	97.3	99.2	99.5	97.0	92.6	105.0
60.0	85.5	91.7	96.2	98.0	98.3	95.8	91.9	103.9
65.0	85.1	90.8	95.8	97.0	97.2	94.7	90.7	102.9
70.0	84.5	90.0	95.0	96.4	96.2	94.2	90.5	102.3
75.0	84.5	89.7	94.0	95.0	95.3	92.9	89.5	101.5
80.0	83.8	89.4	94.2	95.3	94.8	92.6	89.1	101.1
85.0	83.0	88.8	93.4	94.3	93.8	91.3	88.2	100.1
90.0	83.0	88.3	93.1	93.6	93.5	90.8	87.2	99.6
95.0	82.5	88.4	92.8	93.1	92.7	90.3	87.4	99.1
100.0	82.0	87.6	92.6	92.8	92.5	90.1	86.8	98.9
105.0	81.3	87.2	91.9	92.5	91.7	89.3	86.3	98.3
110.0	80.6	85.9	91.0	92.0	91.5	89.4	86.3	98.0
115.0	80.1	85.0	91.2	91.9	91.4	89.2	86.3	97.7

MODEL THRUST = 58.583

FULL SCALE THRUST = 20000.000

ANGLE	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	3409.7	6765.2	13530.4	27060.8
15.0	75.61 (75.4)	77.8	66.87	75.20	71.14	68.53	63.95	53.80	40.66	18.10	-22.07
20.0	81.01 (80.7)	80.2	68.34	74.29	75.50	73.60	69.97	61.27	49.39	31.59	45.92
25.0	84.91 (84.3)	82.8	68.81	75.44	78.28	77.24	73.42	66.18	55.82	40.84	15.08
30.0	88.51 (87.8)	85.2	68.85	75.23	79.80	80.66	77.97	71.21	61.29	48.77	28.93
35.0	91.51 (90.7)	87.3	68.62	75.47	80.55	83.07	81.53	74.69	64.62	52.79	37.02
40.0	92.01 (91.1)	87.2	67.61	74.80	80.96	82.51	82.10	76.07	64.69	55.02	39.05
45.0	92.01 (90.9)	86.6	67.27	74.04	79.44	81.49	81.61	76.80	64.19	58.04	41.43
50.0	91.01 (89.6)	85.5	66.79	72.40	77.00	80.13	80.08	76.70	64.19	58.04	41.43
55.0	90.61 (89.1)	84.9	66.23	72.98	77.45	79.56	74.39	75.59	64.35	58.74	43.18
60.0	90.11 (88.5)	84.3	66.01	72.40	77.26	78.44	78.07	75.02	64.43	59.59	44.47
65.0	89.51 (88.0)	83.8	66.58	72.29	77.22	78.27	78.04	74.41	67.74	59.20	45.50
70.0	89.21 (87.6)	83.4	66.35	71.40	76.79	78.01	77.42	74.21	64.07	58.68	44.44
75.0	88.71 (87.0)	83.0	66.57	71.77	76.62	77.82	76.72	73.22	67.34	59.15	46.10
80.0	88.41 (86.7)	82.7	66.02	71.49	76.39	77.38	76.30	73.17	67.30	59.16	46.10
85.0	87.51 (85.8)	81.8	65.33	71.11	75.64	76.41	75.45	71.97	66.48	58.40	45.74
90.0	87.01 (85.3)	81.4	65.36	70.69	75.42	75.74	74.22	71.55	64.58	57.52	44.90
95.0	86.51 (84.7)	80.9	64.61	70.73	74.92	75.19	74.42	70.44	65.68	57.40	44.94
100.0	86.11 (84.3)	80.5	64.70	70.44	74.74	74.74	73.09	70.09	64.45	56.14	44.94
105.0	85.21 (83.4)	79.8	63.39	69.29	73.85	74.31	73.11	69.44	64.24	56.00	43.04
110.0	84.71 (83.0)	79.3	62.46	67.70	73.45	73.59	72.72	69.45	64.45	55.50	42.70
115.0	84.11 (82.4)	78.6	61.58	66.50	72.82	73.21	72.14	68.80	63.42	54.83	41.21

~~ISTIC POWER AND SOUND POWER LEVEL FOR MODEL JCO~~

~~EXPERIMENTAL DATA~~
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

MODEL THRUST = 94,150 FULL SCALE THRUST = 20000.000

A-I46

NUM NUMBER	247.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.000
PRIMARY TEMPERATURE (°F)	927.000
SECONDARY TEMPERATURE (°F)	565.000
PRIMARY PRESSURE RATIO	2.900
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	1604.784
MASS FLOW RATIO	1.338
PRIMARY MASS FLOW (LB/SEC)	1.258
THRUST (LBS)	15.700
ENVIRONMENTAL TEMPERATURE (°F)	546.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.670
ENVIRONMENTAL HUMIDITY (PER CENT)	33.000
CALIBRATION FACTOR (INV TO 0.750 C)	1.071
INSTRUMENTATION NOISE FLOOR (DB)	66.550

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.62104E+00	137.5	THRUST	POWER LEVEL (DB)
500	1.21771E-02	110.9	10000	109.9
1000	6.82430E-02	119.9	20000	108.5
2000	5.34242E-01	127.3	40000	171.6
4000	1.44820E+00	131.8	80000	176.6
8000	2.04019E+00	133.1		
16000	1.03793E+00	130.2		
31500	4.09403E-01	126.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	81.1	80.8	106.3	107.3	106.9	104.3	97.6	112.4
20.0	80.9	80.7	106.3	109.1	107.6	101.7	94.7	110.2
25.0	80.0	80.3	105.9	109.1	109.7	105.2	98.4	110.2
30.0	87.3	86.4	104.8	109.0	109.2	105.5	100.1	113.9
35.0	85.6	85.6	104.1	109.5	109.9	105.8	99.8	114.8
40.0	83.9	82.9	102.8	107.9	110.2	104.5	100.9	113.8
45.0	82.4	80.5	101.9	105.3	109.0	104.7	100.0	111.9
50.0	79.9	80.0	98.6	102.6	105.8	104.0	100.2	109.9
55.0	78.2	80.5	98.6	100.2	103.6	102.2	99.3	107.8
60.0	77.4	85.1	92.2	97.8	101.3	100.9	98.0	106.8
65.0	76.6	84.8	91.8	96.2	99.5	99.6	97.1	104.3
70.0	76.1	83.5	90.2	95.1	98.2	98.1	95.4	103.4
75.0	76.1	82.9	89.9	94.3	97.1	97.0	94.9	102.3
80.0	76.1	82.6	89.0	93.3	96.8	96.2	94.9	101.6
85.0	75.6	81.9	88.6	92.5	95.6	95.6	94.0	100.8
90.0	74.5	81.5	87.8	91.8	94.8	95.3	93.5	100.4
95.0	73.9	80.7	87.1	91.3	94.7	94.7	92.8	99.9
100.0	73.9	80.6	86.8	91.8	93.6	94.1	92.2	99.2
105.0	73.3	80.1	85.9	90.2	92.9	93.7	91.5	98.7
110.0	72.6	79.5	85.2	89.4	92.3	93.4	91.2	98.1
115.0	72.0	79.0	84.8	88.9	91.9	93.1	90.8	97.7

MODEL THRUST = 15.700 FULL SCALE THRUST = 20000.000

ANGLE	500	OCTAVE BAND	1000	2000	4000	8000	16000	31500	OVERALL
15.0	81.1	80.8	106.3	107.3	106.9	104.3	97.6	112.4	
20.0	80.9	80.7	106.3	109.1	107.6	101.7	94.7	110.2	
25.0	80.0	80.3	105.9	109.1	109.7	105.2	98.4	110.2	
30.0	87.3	86.4	104.8	109.0	109.2	105.5	100.1	113.9	
35.0	85.6	85.6	104.1	109.5	109.9	105.8	99.8	114.8	
40.0	83.9	82.9	102.8	107.9	110.2	104.5	100.9	113.8	
45.0	82.4	80.5	101.9	105.3	109.0	104.7	100.0	111.9	
50.0	79.9	80.0	98.6	102.6	105.8	104.0	100.2	109.9	
55.0	78.2	80.5	98.6	100.2	103.6	102.2	99.3	107.8	
60.0	77.4	85.1	92.2	97.8	101.3	100.9	98.0	106.8	
65.0	76.6	84.8	91.8	96.2	99.5	99.6	97.1	104.3	
70.0	76.1	83.5	90.2	95.1	98.2	98.1	95.4	103.4	
75.0	76.1	82.9	89.9	94.3	97.1	97.0	94.9	102.3	
80.0	76.1	82.6	89.0	93.3	96.8	96.2	94.9	101.6	
85.0	75.6	81.9	88.6	92.5	95.6	95.6	94.0	100.8	
90.0	74.5	81.5	87.8	91.8	94.8	95.3	93.5	100.4	
95.0	73.9	80.7	87.1	91.3	94.7	94.7	92.8	99.9	
100.0	73.9	80.6	86.8	91.8	93.6	94.1	92.2	99.2	
105.0	73.3	80.1	85.9	90.2	92.9	93.7	91.5	98.7	
110.0	72.6	79.5	85.2	89.4	92.3	93.4	91.2	98.1	
115.0	72.0	79.0	84.8	88.9	91.9	93.1	90.8	97.7	

RUN NUMBER	200,000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	9.800
PRIMARY TEMPERATURE (°F)	915.000
SECONDARY TEMPERATURE (°F)	547.000
PRIMARY PRESSURE (PSI)	2.500
AREA RATIO	1.000
VELOCITY RATIO	1.057
PRIMARY VELOCITY (FT/SEC)	1594.363
MASS FLOW RATIO	1.152
PRIMARY MASS FLOW (LB/SEC)	2.257
THRUST (LBS)	22.320
ENVIRONMENTAL TEMPERATURE (°F)	544.000
ENVIRONMENTAL PRESSURE (IN. HG)	29.870
ENVIRONMENTAL HUMIDITY (PER CENT)	34.000
SATURATION FRACTION (WV TO 0.750 C-1)	1.050
INSTRUMENTATION NOISE FLOOR (DB)	64.500

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.48094E+00	136.4	THRUST	POWER LEVEL (DB)
500	2.24732E-02	113.5	10000	162.9
1000	1.25094E-01	121.0	20000	166.0
2000	4.24576E-01	128.0	40000	169.0
4000	1.21800E+00	130.9	80000	172.0
8000	1.39687E+00	131.5		
16000	6.93300E-01	129.4		
31500	2.94736E-01	124.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	81.8	101.0	105.1	104.0	100.4	94.1	89.0	109.0
20.0	82.7	101.3	104.1	103.7	102.0	93.2	88.4	110.7
25.0	81.7	100.0	104.0	103.3	103.3	92.2	87.1	112.0
30.0	80.1	99.1	103.0	102.3	102.0	100.9	86.3	112.6
35.0	80.0	98.0	102.0	101.0	100.0	99.0	84.0	113.1
40.0	80.3	98.1	102.4	101.4	100.4	100.3	80.5	112.7
45.0	80.0	97.0	101.1	100.0	100.0	100.0	79.0	112.2
50.0	80.1	96.2	97.7	100.4	100.0	100.1	78.0	109.2
55.0	80.0	95.0	95.0	100.1	100.0	100.1	77.0	107.4
60.0	79.6	94.9	93.9	98.0	100.5	100.1	76.0	105.6
65.0	79.9	94.0	92.2	96.7	99.3	98.3	75.3	104.3
70.0	78.1	93.6	91.1	95.2	97.7	97.5	75.0	103.0
75.0	78.0	92.0	89.0	94.0	96.0	96.0	74.0	102.1
80.0	78.6	91.3	88.0	93.6	95.0	95.0	74.2	101.4
85.0	78.0	90.0	87.0	92.0	94.0	94.7	73.5	100.6
90.0	77.0	89.0	86.0	91.0	93.2	93.9	72.0	99.8
95.0	76.0	88.0	85.0	90.1	92.7	93.7	71.0	99.1
100.0	76.6	87.4	84.0	89.0	92.0	92.7	71.0	98.6
105.0	75.0	86.0	83.0	88.1	91.0	91.1	70.1	97.9
110.0	74.6	85.0	82.0	87.0	90.0	90.5	69.2	97.6
115.0	73.0	84.0	81.0	86.0	89.0	89.0	68.0	96.7

MODEL THRUST = 22.320 FULL SCALE THRUST = 20000.000

ANGLE	500	OCTAVE BAND	500	1000	2000	4000	8000	16000	OVERALL
15.0	81.8	101.0	105.1	104.0	100.4	94.1	89.0	84.0	109.0
20.0	82.7	101.3	104.1	103.7	102.0	93.2	88.4	83.4	110.7
25.0	81.7	100.0	104.0	103.3	103.3	92.2	87.1	82.1	112.0
30.0	80.1	99.1	103.0	102.3	102.0	90.9	85.3	80.3	112.6
35.0	80.0	98.0	102.0	101.0	100.0	89.0	84.0	79.0	113.1
40.0	80.3	98.1	102.4	101.4	100.4	89.3	84.3	79.3	112.7
45.0	80.0	97.0	101.1	100.0	99.0	88.0	83.0	78.0	112.2
50.0	80.1	96.2	97.7	96.4	95.0	83.1	78.4	73.4	109.2
55.0	80.0	95.0	95.0	94.1	92.0	82.1	77.0	72.0	107.4
60.0	79.6	94.9	93.9	93.0	90.5	80.1	75.0	70.0	105.6
65.0	79.9	94.0	92.2	91.7	89.3	79.3	74.3	69.3	104.3
70.0	78.1	93.6	91.1	90.2	87.7	77.5	72.5	67.5	103.0
75.0	78.0	92.0	89.0	88.0	85.0	75.0	70.0	65.0	102.1
80.0	78.6	91.3	88.0	87.6	85.0	75.0	70.0	65.0	101.4
85.0	78.0	90.0	87.0	86.0	83.0	73.0	68.0	63.0	100.6
90.0	77.0	89.0	86.0	85.0	82.0	72.0	67.0	62.0	99.8
95.0	76.0	88.0	85.0	84.0	81.0	71.0	66.0	61.0	99.1
100.0	76.6	87.4	84.0	83.0	80.0	70.0	65.0	60.0	98.6
105.0	75.0	86.0	83.0	82.0	79.0	69.0	64.0	59.0	97.9
110.0	74.6	85.0	82.0	81.0	78.0	68.0	63.0	58.0	97.6
115.0	73.0	84.0	81.0	80.0	77.0	67.0	62.0	57.0	96.7

RUN NUMBER	269.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.800
PRIMARY TEMPERATURE (°F)	1247.000
SECONDARY TEMPERATURE (°F)	547.000
PRIMARY PRESSURE-RATIO	2.500
AREA RATIO	2.007
VELOCITY-RATIO	1.003
PRIMARY VELOCITY (FT/SEC)	1603.914
MASS FLOW-RATIO	0.953
PRIMARY MASS FLOW (LBS/SEC)	0.260
THRUST (LBS)	17.919
ENVIRONMENTAL TEMPERATURE (°F)	545.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.870
ENVIRONMENTAL HUMIDITY (PER CENT)	33.000
CALCULATION FACTOR (INV 10-00000 CM)	1100
INSTRUMENTATION NOISE FLOOR (DB)	69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	1.88534E+01	140.4	28000	167.8
500	1.66189E-02	112.2	28000	170.8
1000	1.12129E-01	120.5	40000	173.8
2000	7.50428E-01	128.8	80000	176.9
4000	2.50505E+00	134.1		
8000	6.21351E+00	136.2		
16000	2.34932E+00	133.7		
31500	8.60308E-01	129.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVER- ALL
10.0	83.0	88.2	104.3	107.1	109.1	109.2	109.4	112.9
20.0	80.7	84.2	100.4	109.1	111.2	109.2	108.1	115.7
30.0	78.1	80.9	100.0	111.1	112.0	110.9	109.1	117.2
40.0	75.1	78.1	107.3	111.7	113.3	110.3	108.8	117.5
50.0	72.0	75.0	105.7	111.0	112.9	109.9	108.0	117.8
60.0	69.0	74.0	104.1	110.0	112.0	108.9	107.7	116.4
70.0	67.0	72.0	102.7	109.0	111.7	108.2	107.3	115.3
80.0	61.0	66.0	99.5	106.4	109.4	107.2	103.0	113.3
90.0	59.0	67.0	96.6	103.1	106.9	105.4	101.9	110.7
100.0	70.1	66.3	94.5	100.2	104.1	103.5	101.4	109.7
110.0	62.1	65.4	92.5	97.1	101.7	101.7	99.1	108.0
120.0	77.5	64.8	91.0	97.1	100.5	100.7	97.4	105.4
130.0	75.5	62.7	89.0	95.0	97.7	97.0	94.0	103.0
140.0	72.3	62.0	88.3	93.0	96.8	96.4	93.7	101.0
150.0	70.3	62.0	88.0	93.3	96.3	96.1	94.2	101.5
160.0	75.0	61.3	87.5	91.7	94.5	94.5	92.7	100.4
170.0	74.0	61.3	87.0	91.0	93.8	93.8	91.4	99.7
180.0	74.0	60.9	86.1	90.3	93.3	93.3	91.2	98.8
190.0	73.1	59.0	85.0	89.0	92.0	92.0	90.0	98.2

MODEL THRUST = 17.919 FULL SCALE THRUST = 28000.000

ANGLE	500	1000	2000	4000	8000	16000	31500	OVER- ALL
10.0	83.0	88.2	104.3	107.1	109.1	109.2	109.4	112.9
20.0	80.7	84.2	100.4	109.1	111.2	109.2	108.1	115.7
30.0	78.1	80.9	100.0	111.1	112.0	110.9	109.1	117.2
40.0	75.1	78.1	107.3	111.7	113.3	110.3	108.8	117.5
50.0	72.0	75.0	105.7	111.0	112.9	109.9	108.0	117.8
60.0	69.0	74.0	104.1	110.0	112.0	108.9	107.7	116.4
70.0	67.0	72.0	102.7	109.0	111.7	108.2	107.3	115.3
80.0	61.0	66.0	99.5	106.4	109.4	107.2	103.0	113.3
90.0	59.0	67.0	96.6	103.1	106.9	105.4	101.9	110.7
100.0	70.1	66.3	94.5	100.2	104.1	103.5	101.4	109.7
110.0	62.1	65.4	92.5	97.1	101.7	101.7	99.1	108.0
120.0	77.5	64.8	91.0	97.1	100.5	100.7	97.4	105.4
130.0	75.5	62.7	89.0	95.0	97.7	97.0	94.0	103.0
140.0	72.3	62.0	88.3	93.0	96.8	96.4	93.7	101.0
150.0	70.3	62.0	88.0	93.3	96.3	96.1	94.2	101.5
160.0	75.0	61.3	87.5	91.7	94.5	94.5	92.7	100.4
170.0	74.0	61.3	87.0	91.0	93.8	93.8	91.4	99.7
180.0	74.0	60.9	86.1	90.3	93.3	93.3	91.2	98.8
190.0	73.1	59.0	85.0	89.0	92.0	92.0	90.0	98.2

RUN NUMBER	041000
AXIAL POSITION OF PRIMARY DRY, SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (IN)	273.000
SECONDARY TEMPERATURE (IN)	247.000
PRIMARY PRESSURE (PSIA)	21.200
AREA RATIO	4.450
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	1001.310
MASS FLOW RATIO	2.000
PRIMARY MASS FLOW (LB/SEC)	1.250
THRUST (LBS)	267.500
ENVIRONMENTAL TEMPERATURE (IN)	510.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.925
ENVIRONMENTAL HUMIDITY (PLR CNT)	30.000
CALCULATION FACTOR (TV TO OFFSH C)	0.000
INSTRUMENTATION NOISE FLUOR (DB)	00.000

NOISE POWER AND SOUND POWER LEVEL FOR MODEL 107

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.01044E+00	135.6	THRUST	POWER LEVEL (DB)
800	3.78872E-02	115.0	10000	101.0
1000	2.10194E-01	123.2	20000	104.4
2000	6.39461E-01	128.0	40000	107.0
4000	0.99460E+01	130.0	80000	110.4
6000	1.03576E+00	130.2		
10000	0.70050E+01	129.0		
21000	1.07455E-01	122.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	4000	8000	16000	OVERALL
00.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
10.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
20.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
30.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
40.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
50.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
60.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
70.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
80.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
90.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
100.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
110.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
120.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
130.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
140.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
150.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
160.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
170.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
180.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0

MODEL THRUST = 20,000 FULL SCALE THRUST = 20000.000

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	4000	8000	16000	OVERALL
00.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
10.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
20.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
30.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
40.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
50.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
60.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
70.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
80.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
90.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
100.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
110.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
120.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
130.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
140.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
150.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
160.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
170.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0
180.0	83.0	102.0	104.0	107.0	109.0	110.0	110.0	110.0

SUM NUMBER	272.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	0.000
PRIMARY TEMPERATURE (°F)	272.000
SECONDARY TEMPERATURE (°F)	245.000
PRIMARY PRESSURE (PSI)	2.500
AREA RATIO	4.450
VELOCITY RATIO	1.452
PRIMARY VELOCITY (FT/SEC)	1000.700
MASS FLOW (GPM)	1.000
PRIMARY MASS FLOW (LBS/SEC)	1.268
THRUST (LBS)	35.100
ENVIRONMENTAL TEMPERATURE (°F)	520.000
ENVIRONMENTAL PRESSURE (PSI)	24.700
ENVIRONMENTAL HUMIDITY (PER CENT)	30.000
CONSTRUCTION FACTOR (FOR 1000 WPM)	1.000
INSTRUMENTATION NOISE FLOOR (DB)	60.570

THRUST POWER AND SOUND POWER LEVEL FOR MODEL 101

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	6.94571E-02	138.4	10000	107.2
500	1.77945E-02	122.5	20000	104.1
1000	6.35151E-02	129.2	20000	107.2
2000	1.92933E-02	122.6	20000	107.2
4000	1.00760E-02	122.4		
8000	1.76633E-02	131.4		
10000	2.01221E-02	127.3		
21500	2.30270E-02	129.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE DEG	500 Hz	OCTAVE BAND	1000 Hz	2000 Hz	4000 Hz	PRESSURE LEVEL DB	THRUST LBS	OVER ALL
0.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
20.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
70.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
80.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
90.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
110.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
120.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
130.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
140.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
150.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
160.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
170.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
180.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
190.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
210.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
220.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
230.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
240.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
250.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
260.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
270.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
280.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
290.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MODEL THRUST = 34.100 FULL SCALE THRUST = 22000.000

ANGLE DEG	500 Hz	OCTAVE BAND	1000 Hz	2000 Hz	4000 Hz	PRESSURE LEVEL DB	THRUST LBS	OVER ALL
0.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
20.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
70.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
80.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
90.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
110.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
120.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
130.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
140.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
150.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
160.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
170.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
180.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
190.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
210.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
220.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
230.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
240.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
250.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
260.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
270.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
280.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
290.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300.0	102.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

RUN NUMBER	273,000
AXIAL POSITION OF PRIMARY WPT. SECONDARY (IN.)	9.800
PRIMARY TEMPERATURE (IN)	425.000
SECONDARY TEMPERATURE (IN)	545.000
PRIMARY PRESSURE RATIO	2.900
AREA RATIO	9.700
VELOCITY RATIO	1.100
PRIMARY VELOCITY (FT/SEC)	1003.051
MASS FLOW RATIO	1.000
PRIMARY MASS FLOW (LN/SEC)	1.000
THRUST (LBS)	34.075
ENVIRONMENTAL TEMPERATURE (IN)	330.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	30.000
CORRECTION FACTOR (FOR 10-100% CH)	1.112
INSTRUMENTATION NOISE FLOOR (DB)	78.500

QUIET POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	1.41002E+01	101.5	THRUST POWER LEVEL (DB)
300	3.72810E+02	115.7	10000 105.0
1000	1.00000E+01	100.0	20000 100.0
3000	8.07346E-01	129.5	40000 111.0
10000	2.01425E-01	134.5	60000 116.0
30000	9.50427E-02	137.4	
100000	0.10000E+00	130.0	
315000	1.10130E+00	130.0	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	300	OCTAVE BAND	3000	SOUND PRESSURE LEVEL	10000	31500	OVER ALL
0.0	44.0	100.0	100.0	100.0	100.0	100.0	100.0
10.0	44.0	101.5	100.0	100.0	100.0	100.0	100.0
20.0	43.0	101.5	100.0	100.0	100.0	100.0	100.0
30.0	42.0	101.5	100.0	100.0	100.0	100.0	100.0
40.0	41.0	101.5	100.0	100.0	100.0	100.0	100.0
50.0	40.0	101.5	100.0	100.0	100.0	100.0	100.0
60.0	39.0	101.5	100.0	100.0	100.0	100.0	100.0
70.0	38.0	101.5	100.0	100.0	100.0	100.0	100.0
80.0	37.0	101.5	100.0	100.0	100.0	100.0	100.0
90.0	36.0	101.5	100.0	100.0	100.0	100.0	100.0
100.0	35.0	101.5	100.0	100.0	100.0	100.0	100.0
110.0	34.0	101.5	100.0	100.0	100.0	100.0	100.0
120.0	33.0	101.5	100.0	100.0	100.0	100.0	100.0
130.0	32.0	101.5	100.0	100.0	100.0	100.0	100.0
140.0	31.0	101.5	100.0	100.0	100.0	100.0	100.0
150.0	30.0	101.5	100.0	100.0	100.0	100.0	100.0
160.0	29.0	101.5	100.0	100.0	100.0	100.0	100.0
170.0	28.0	101.5	100.0	100.0	100.0	100.0	100.0
180.0	27.0	101.5	100.0	100.0	100.0	100.0	100.0
190.0	26.0	101.5	100.0	100.0	100.0	100.0	100.0
200.0	25.0	101.5	100.0	100.0	100.0	100.0	100.0
210.0	24.0	101.5	100.0	100.0	100.0	100.0	100.0
220.0	23.0	101.5	100.0	100.0	100.0	100.0	100.0
230.0	22.0	101.5	100.0	100.0	100.0	100.0	100.0
240.0	21.0	101.5	100.0	100.0	100.0	100.0	100.0
250.0	20.0	101.5	100.0	100.0	100.0	100.0	100.0
260.0	19.0	101.5	100.0	100.0	100.0	100.0	100.0
270.0	18.0	101.5	100.0	100.0	100.0	100.0	100.0
280.0	17.0	101.5	100.0	100.0	100.0	100.0	100.0
290.0	16.0	101.5	100.0	100.0	100.0	100.0	100.0
300.0	15.0	101.5	100.0	100.0	100.0	100.0	100.0

MODEL THRUST = 39.075 FULL SCALE THRUST = 21000.000

ANGLE (DEG)	300	OCTAVE BAND	3000	SOUND PRESSURE LEVEL	10000	31500	OVER ALL
0.0	44.0	100.0	100.0	100.0	100.0	100.0	100.0
10.0	44.0	101.5	100.0	100.0	100.0	100.0	100.0
20.0	43.0	101.5	100.0	100.0	100.0	100.0	100.0
30.0	42.0	101.5	100.0	100.0	100.0	100.0	100.0
40.0	41.0	101.5	100.0	100.0	100.0	100.0	100.0
50.0	40.0	101.5	100.0	100.0	100.0	100.0	100.0
60.0	39.0	101.5	100.0	100.0	100.0	100.0	100.0
70.0	38.0	101.5	100.0	100.0	100.0	100.0	100.0
80.0	37.0	101.5	100.0	100.0	100.0	100.0	100.0
90.0	36.0	101.5	100.0	100.0	100.0	100.0	100.0
100.0	35.0	101.5	100.0	100.0	100.0	100.0	100.0
110.0	34.0	101.5	100.0	100.0	100.0	100.0	100.0
120.0	33.0	101.5	100.0	100.0	100.0	100.0	100.0
130.0	32.0	101.5	100.0	100.0	100.0	100.0	100.0
140.0	31.0	101.5	100.0	100.0	100.0	100.0	100.0
150.0	30.0	101.5	100.0	100.0	100.0	100.0	100.0
160.0	29.0	101.5	100.0	100.0	100.0	100.0	100.0
170.0	28.0	101.5	100.0	100.0	100.0	100.0	100.0
180.0	27.0	101.5	100.0	100.0	100.0	100.0	100.0
190.0	26.0	101.5	100.0	100.0	100.0	100.0	100.0
200.0	25.0	101.5	100.0	100.0	100.0	100.0	100.0
210.0	24.0	101.5	100.0	100.0	100.0	100.0	100.0
220.0	23.0	101.5	100.0	100.0	100.0	100.0	100.0
230.0	22.0	101.5	100.0	100.0	100.0	100.0	100.0
240.0	21.0	101.5	100.0	100.0	100.0	100.0	100.0
250.0	20.0	101.5	100.0	100.0	100.0	100.0	100.0
260.0	19.0	101.5	100.0	100.0	100.0	100.0	100.0
270.0	18.0	101.5	100.0	100.0	100.0	100.0	100.0
280.0	17.0	101.5	100.0	100.0	100.0	100.0	100.0
290.0	16.0	101.5	100.0	100.0	100.0	100.0	100.0
300.0	15.0	101.5	100.0	100.0	100.0	100.0	100.0

NUM NUMBER	274.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.400
PRIMARY TEMPERATURE (R)	926.000
SECONDARY TEMPERATURE (R)	545.000
PRIMARY PRESSURE (PSI)	2150.7
AREA RATIO	9.783
VELOCITY RATIO	1.052
PRIMARY VELOCITY (FT/SEC)	1603.919
MASS FLOW RATIO	9.022
PRIMARY MASS FLOW (LH/SEC)	1.260
THRUST (LBS)	94.193
ENVIRONMENTAL TEMPERATURE (R)	535.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	40.000
CORRECTION FACTOR (HY TO 01/57 CW)	1.142
INSTRUMENTATION NOISE FLOOR (DB)	72.631

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JLT

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.62411E+01	144.2	THRUST	POWER LEVEL (DB)
500	2.91052E-01	124.6	13000	154.4
1000	2.72999E-01	134.4	20000	167.5
2000	3.40804E-01	135.3	40000	174.3
4000	5.75070E-01	157.0	80000	173.5
8000	8.01177E-01	139.0		
16000	4.44005E-01	136.3		
31500	1.60303E-01	132.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
		1000	2000	4000	8000	16000	ALL
15.0	104.1	107.4	107.2	106.1	105.5	102.7	113.0
20.0	104.0	108.9	109.3	108.2	109.1	105.7	115.6
25.0	102.9	108.8	111.2	110.6	110.9	108.0	117.5
30.0	101.0	108.1	112.2	112.3	113.0	110.8	118.8
35.0	98.9	106.9	112.5	114.4	114.5	111.9	120.0
40.0	96.4	105.1	111.3	115.2	116.0	112.2	120.5
45.0	94.9	102.6	109.5	113.3	115.9	112.8	119.7
50.0	93.6	115.8	109.0	111.7	114.5	111.8	120.3
55.0	92.3	99.2	105.4	109.0	111.0	109.1	115.6
60.0	91.5	95.9	102.8	106.4	108.8	107.2	113.4
65.0	91.4	97.1	102.7	105.3	107.3	106.1	112.3
70.0	90.7	96.2	101.5	103.9	105.5	104.2	110.8
75.0	89.3	95.4	100.9	102.5	104.2	103.1	109.7
80.0	90.1	95.3	100.3	101.7	102.9	101.9	108.7
85.0	89.5	95.1	99.5	101.3	102.0	101.0	108.1
90.0	88.6	94.1	98.9	100.8	102.0	100.3	107.6
95.0	92.9	93.7	98.5	100.3	101.1	99.7	107.1
100.0	88.4	93.6	98.1	99.5	100.7	99.2	106.5
105.0	87.7	93.3	97.5	99.5	100.6	98.8	106.3
110.0	86.0	92.7	97.4	99.0	100.6	98.2	105.9
115.0	86.0	91.4	97.1	98.0	100.6	98.0	105.6

MODEL THRUST = 94.193 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS
			34.3	68.6	137.3	274.5	549.0
5795.6	82.31 (82.1)	81.2	72.60	75.86	76.05	73.53	70.74
4385.7	87.81 (87.6)	85.4	74.08	79.77	79.46	78.25	76.53
3549.3	92.41 (92.4)	89.1	75.66	81.54	83.80	82.08	81.68
3000.0	96.41 (96.9)	91.8	76.30	82.36	86.30	86.00	85.52
2615.2	99.31 (98.7)	94.2	74.39	82.29	87.79	84.36	84.50
2339.4	101.31 (100.6)	95.7	73.25	81.11	84.50	81.17	81.14
2121.3	101.41 (101.0)	95.7	72.18	80.06	86.67	80.16	81.93
1954.1	102.31 (101.4)	97.4	71.56	83.74	85.87	84.25	84.78
1831.2	99.51 (98.4)	92.8	70.49	77.75	84.40	87.21	89.50
1732.1	98.11 (96.8)	91.1	70.59	76.36	81.79	85.69	86.85
1655.1	97.41 (96.1)	90.5	70.82	76.51	82.09	84.44	85.78
1590.3	96.31 (94.9)	89.3	70.44	75.44	81.23	83.38	84.30
1552.9	95.41 (94.3)	88.4	69.31	75.17	80.40	82.21	83.26
1523.1	95.21 (93.7)	87.7	70.28	75.03	80.45	81.51	82.15
1505.7	94.71 (93.2)	87.2	69.78	75.30	79.71	81.25	81.38
1500.0	94.21 (92.7)	86.7	68.95	74.35	79.10	80.74	81.41
1505.7	93.71 (92.1)	86.2	73.17	73.92	78.64	80.23	80.53
1483.1	92.41 (91.4)	84.5	68.58	73.41	78.10	79.47	80.00
1552.9	92.31 (90.9)	85.1	67.68	73.24	77.83	79.14	79.74
1606.3	91.41 (90.0)	84.5	66.76	72.11	77.11	78.44	79.40
1655.1	90.41 (89.4)	83.9	65.44	70.74	76.49	77.76	79.13

RUH-NUMBER	275.00 (75L00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.800
PRIMARY TEMPERATURE (IN)	895.000
SECONDARY TEMPERATURE (IN)	550.000
PRIMARY PRESSURE (PSI)	1.500
AREA RATIO	1.000
VELOCITY RATIO	1.425
PRIMARY VELOCITY (FT/SEC)	1802.215
MASS FLOW RATIO	1.034
PRIMARY MASS FLOW (LB/SEC)	1.328
THRUST (LBS)	23.340
ENVIRONMENTAL TEMPERATURE (F)	544.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	32.000
CALIBRATION FACTOR (IN. TO IN/20 CM)	1.128
INSTRUMENTATION NOISE FLOOR (DB)	71.587

MUSIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.76174E+01	142.5	THRUST	POWER LEVEL (DB)
500	3.66536E-02	115.6	10000	165.8
1000	2.03150E-01	124.5	20000	171.8
2000	1.74492E+00	132.4	40000	174.8
4000	4.03801E+00	136.7	80000	177.8
8000	6.40625E+00	138.1		
16000	3.32618E+00	135.2		
31500	1.18343E+00	130.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
		1000	2000	4000	8000	16000	ALL
15.0	94.3	104.6	109.9	111.5	114.0	104.3	116.2
20.0	95.3	104.6	110.8	112.8	112.8	108.2	117.9
25.0	94.1	105.3	111.6	114.0	114.1	110.3	119.1
30.0	91.9	102.1	110.7	114.8	115.4	112.2	120.6
35.0	90.5	100.0	109.4	114.7	115.9	112.4	119.9
40.0	87.8	97.3	107.3	113.0	115.0	111.1	118.7
45.0	86.1	95.0	104.1	110.0	113.2	110.0	116.9
50.0	84.3	92.4	101.0	107.3	110.5	108.5	114.4
55.0	82.5	90.1	98.4	104.1	107.5	106.7	112.0
60.0	81.1	88.5	96.5	102.1	105.4	104.5	110.0
65.0	81.1	88.1	95.0	100.1	103.3	102.8	108.2
70.0	80.6	87.1	94.0	98.7	101.8	101.7	107.0
75.0	80.0	86.0	93.5	97.9	100.0	100.6	106.0
80.0	80.1	86.6	92.9	97.3	99.8	99.6	105.1
85.0	79.5	85.5	92.0	96.3	98.3	98.7	104.4
90.0	79.5	85.5	91.5	95.7	99.1	98.0	103.9
95.0	79.5	84.8	90.8	94.8	98.6	97.4	103.3
100.0	78.3	84.1	90.2	94.5	98.0	96.8	102.7
105.0	77.6	83.7	89.3	93.9	97.4	96.4	102.1
110.0	77.6	83.0	88.9	93.3	96.8	96.0	101.7
115.0	76.8	82.6	88.4	93.0	97.2	95.5	101.5

MODEL THRUST = 23.340 FULL SCALE THRUST = 20000.000

L*	PHOB	OASPL	17.1		OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			17.1	34.2	68.3	136.6	273.3	546.6	1076.1	2152.2	4270.2	8540.4	17080.9
5795.6	91.5 (91.0)	90.2	70.88	79.20	84.45	85.77	84.03	78.82	63.22	48.24	20.96	-27.78	-108.06
4385.7	96.71 (96.0)	94.2	72.33	81.63	87.76	89.92	88.90	82.74	71.33	59.27	37.49	28	-61.20
3849.3	100.5 (99.4)	97.3	72.95	82.18	90.37	92.63	92.31	87.18	77.26	66.92	49.05	18.03	-32.29
3000.0	103.6 (102.2)	99.7	72.20	82.41	91.01	95.70	95.71	90.92	82.18	72.98	57.41	30.73	-12.27
2615.2	105.1 (103.5)	100.8	72.03	81.56	90.84	96.37	94.47	92.48	84.67	76.26	62.31	38.66	.79
2333.8	105.3 (103.5)	100.8	70.36	79.49	87.73	93.43	92.01	92.12	84.74	76.92	64.18	42.72	8.61
2121.3	104.8 (102.7)	99.6	69.47	78.34	87.43	93.42	96.17	92.10	85.24	77.85	65.96	46.22	14.94
1958.1	103.4 (101.0)	97.9	68.36	76.40	85.04	91.25	94.71	91.47	85.36	78.31	67.11	48.65	19.54
1831.2	102.0 (99.1)	96.0	67.08	74.76	83.01	88.41	91.78	90.26	85.36	78.57	67.90	50.45	23.03
1732.1	100.5 (97.5)	94.4	66.23	73.85	81.58	87.97	90.72	88.65	84.28	77.70	67.44	50.77	24.88
1655.1	99.6 (96.3)	93.1	66.62	73.61	80.44	85.52	88.48	87.32	83.92	77.50	67.56	51.50	26.43
1596.2	98.8 (95.5)	92.2	66.44	72.76	79.53	84.44	87.32	86.65	83.25	76.95	67.27	51.67	27.34
1552.9	98.1 (94.7)	91.4	66.68	72.47	79.53	83.48	86.37	85.76	82.56	76.35	66.84	51.58	27.84
1523.1	97.4 (94.0)	90.8	66.32	72.84	79.13	83.40	85.73	84.25	81.74	75.61	66.23	51.21	27.90
1505.7	96.8 (93.3)	90.2	65.86	71.78	78.30	82.52	85.33	84.71	81.27	75.16	65.45	50.96	27.44
1500.0	96.2 (92.8)	89.7	65.90	71.41	77.43	81.97	84.21	83.50	80.65	74.55	65.26	50.42	27.42
1505.7	95.6 (92.2)	89.1	65.46	71.13	77.07	81.09	84.79	82.85	79.09	73.77	64.47	49.58	26.50
1483.1	94.9 (91.4)	88.4	64.52	70.44	76.20	80.04	82.20	80.74	77.14	72.99	63.01	48.39	25.28
152.0	94.0 (90.6)	87.6	63.66	69.46	75.37	79.47	83.13	81.56	78.43	72.22	62.72	47.46	23.75
1496.3	93.3 (89.9)	86.9	63.42	68.77	74.47	78.49	82.30	80.44	77.94	71.66	61.97	46.37	22.08
1465.1	92.7 (89.5)	86.4	62.35	68.03	73.47	78.40	82.37	80.09	77.02	70.60	60.66	44.60	19.53

RUM-MUMMEN	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	270.889
PRIMARY TEMPERATURE (R)	9.800
SECONDARY TEMPERATURE (R)	893.000
PRIMARY PRESSURE (WATTS)	547.000
AREA RATIO	3.990
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	7582
MASS FLOW RATIO	1800.200
PRIMARY MASS FLOW (LB/SEC)	0.978
THRUST (LBS)	328
ENVIRONMENTAL TEMPERATURE (R)	28.805
ENVIRONMENTAL PRESSURE (IN.HG)	544.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.690
CALIBRATION FACTOR (INCHES TO CM)	32.000
INSTRUMENTATION NOISE FLOOR (DB)	1120
	71.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.76455E+01	142.5	THRUST	POWER LEVEL (DB)
500	5.38569E-02	117.3	10000	167.9
1000	3.90511E-01	120.0	20000	170.9
2000	2.03132E+00	133.1	30000	173.9
4000	4.20402E+00	136.9	40000	176.9
8000	6.05004E+00	137.8		
10000	3.65995E+00	134.9		
31500	1.17064E+00	130.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	97.0	104.3	110.6	110.6	110.2	102.2	95.3	115.6
20.0	97.0	105.9	111.7	112.6	111.3	104.9	97.8	117.4
25.0	95.8	105.0	112.1	114.1	113.0	107.3	100.9	118.6
30.0	94.0	103.5	111.5	114.6	114.7	110.2	103.5	119.4
35.0	92.3	101.4	109.0	115.0	115.3	111.5	105.9	119.7
40.0	90.0	98.8	107.7	113.5	115.1	111.3	105.8	118.9
45.0	87.1	96.3	105.0	111.1	113.4	110.3	105.4	117.2
50.0	85.3	93.2	101.8	108.2	110.6	108.8	104.7	114.8
55.0	83.6	91.0	99.2	105.8	107.7	106.6	103.6	112.4
60.0	82.0	90.7	97.4	102.8	105.4	105.1	102.9	110.5
65.0	82.5	89.4	95.7	100.5	103.4	102.9	101.7	108.5
70.0	82.5	89.2	95.1	99.3	102.3	102.5	100.5	107.7
75.0	82.0	88.1	94.2	96.1	100.7	101.2	99.5	106.4
80.0	82.0	87.4	93.5	97.3	99.9	100.7	98.6	105.7
85.0	81.1	86.9	93.1	96.8	99.6	100.0	97.9	105.1
90.0	80.6	86.3	92.0	96.1	99.4	99.3	97.0	104.5
95.0	80.6	86.0	91.7	95.5	99.5	99.8	96.2	104.2
100.0	78.9	85.1	90.9	94.6	98.9	98.3	95.6	103.6
105.0	78.9	84.0	90.2	93.9	97.4	97.9	95.0	102.9
110.0	78.9	83.7	89.5	93.5	97.8	97.6	94.6	103.5
115.0	78.3	83.7	89.3	93.4	96.3	97.4	93.9	102.6

MODEL THRUST = 28.805 FULL SCALE THRUST = 20000.000

LT	PNDB	OASPL	19.0	OCTAVE BAND	SOUND PRESSURE LEVELS	2390.9	4743.8	9487.7	18975.4
			30.0	75.9	151.8	303.6	607.2	1195.4	
5795.6	89.1 (88.7)	88.7	71.58	79.96	84.07	83.89	80.52	71.99	39.20
4385.7	94.7 (94.1)	92.9	79.12	81.98	87.74	86.38	86.35	78.13	61.47
3549.3	98.7 (97.9)	96.0	73.80	82.99	90.01	91.78	90.17	82.90	72.88
3000.0	101.9 (100.8)	98.2	73.99	82.93	90.83	93.43	93.37	87.62	77.84
2615.2	104.0 (102.6)	99.7	72.89	81.98	90.39	95.42	95.31	90.36	81.66
2335.9	104.8 (103.2)	99.9	71.00	80.99	89.25	94.90	96.13	91.97	83.40
2121.3	104.3 (102.4)	98.9	69.57	78.76	87.40	93.33	95.29	91.34	84.26
1958.1	103.8 (100.7)	97.7	68.39	76.28	84.86	91.19	93.89	90.60	84.52
1831.2	101.5 (98.9)	95.4	67.33	75.49	82.84	89.08	90.95	89.32	84.23
1732.1	100.3 (97.4)	93.9	66.23	74.45	81.68	88.83	89.15	88.16	84.12
1655.1	99.0 (95.8)	92.3	67.05	73.97	80.24	84.77	87.56	86.41	83.51
1596.0	98.4 (95.5)	91.9	67.96	73.00	80.00	84.90	86.64	86.37	82.71
1552.9	97.7 (94.5)	90.8	67.18	72.25	79.27	83.10	85.52	85.33	82.01
1523.1	97.2 (94.0)	90.3	67.35	72.70	78.78	82.55	84.83	85.03	81.31
1505.7	96.7 (93.5)	89.9	66.53	72.24	78.46	82.14	84.65	84.40	80.64
1500.0	96.0 (92.8)	89.3	66.07	71.78	77.91	81.43	83.47	83.71	79.94
1505.7	95.5 (92.5)	89.0	66.04	71.46	77.05	80.90	82.70	82.50	79.08
1523.1	94.8 (91.7)	88.2	65.55	70.95	76.44	79.44	81.67	81.50	78.36
1552.9	93.9 (90.9)	87.3	64.08	69.95	75.24	78.44	82.01	82.01	77.51
1596.3	95.2 (91.2)	87.5	63.04	68.65	74.43	78.12	82.35	81.44	76.07
1655.1	92.7 (89.9)	86.4	62.88	68.33	73.89	77.87	82.47	80.88	75.74

WIND NUMBER	277.807
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	9.800
PRIMARY TEMPERATURE (IN)	893.000
SECONDARY TEMPERATURE (IN)	544.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	2.007
VELOCITY RATIO	1.475
PRIMARY VELOCITY (FT/SEC)	1800.200
MASS FLOW RATIO	1.772
PRIMARY MASS FLOW (LB/SEC)	1.375
THRUST (LBS)	23.775
ENVIRONMENTAL TEMPERATURE (RI)	543.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	34.000
CALIBRATION FACTOR (V IN OUT/IN C)	1.178
INSTRUMENTATION NOISE FLOOR (DB)	74.584

AC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	3.06022E+01	144.9	THRUST	POWER LEVEL (DB)
500	4.84040E-02	116.9	10000	175.1
1000	3.65983E-01	125.6	20000	174.1
2000	2.23326E+00	133.5	40000	177.1
4000	7.34733E+00	138.7	80000	180.1
8000	1.18354E+01	140.7		
16000	6.50677E+00	134.1		
31500	2.32295E+00	133.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE 10 DEG	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
-15.0	97.4	105.5	109.4	113.5	115.0	111.3	105.0	119.2
-20.0	96.6	105.4	112.1	115.4	117.3	114.5	108.6	121.6
-25.0	95.1	104.5	112.5	116.1	118.1	115.9	109.9	122.3
-30.0	93.3	103.2	112.1	116.0	118.7	115.9	110.7	122.9
-35.0	91.3	101.5	110.4	116.0	118.1	115.0	110.0	122.2
-40.0	89.6	98.9	108.2	115.0	117.0	113.8	108.7	120.8
-45.0	87.4	96.6	105.5	112.5	115.1	112.1	107.4	118.8
-50.0	85.5	93.8	102.6	109.3	112.2	110.3	105.9	116.2
-55.0	83.6	91.5	99.7	105.9	109.2	108.3	104.6	113.8
-60.0	83.1	90.1	97.5	103.5	106.8	106.3	103.2	111.5
-65.0	81.9	89.6	96.4	101.6	104.8	104.2	101.8	109.6
-70.0	81.9	88.8	95.2	100.3	103.2	103.0	101.1	108.4
-75.0	81.3	88.1	94.8	97.1	101.7	101.6	100.7	107.2
-80.0	81.3	87.5	94.0	98.4	101.2	101.0	100.0	106.6
-85.0	80.6	86.7	93.4	97.6	100.1	100.2	99.1	105.7
-90.0	80.6	86.4	93.0	96.7	99.8	99.5	98.2	105.1
-95.0	80.6	86.0	92.7	96.3	99.6	98.7	97.3	104.5
-100.0	79.8	85.1	91.4	95.1	98.9	98.0	96.8	103.8
-105.0	79.0	84.6	90.9	94.5	98.0	97.1	96.0	103.1
-110.0	79.0	84.1	90.1	93.6	97.9	96.7	95.3	102.5
-115.0	78.1	83.6	89.1	93.5	97.4	96.2	94.9	101.2

MODEL THRUST = 23.726 FULL SCALE THRUST = 20000.000

LV	PNOM	OSPL	OCTAVE BAND	SOUND PRESSURE LEVELS	OVER									
			17.2	34.4	68.9	137.4	275.5	551.1	1084.9	2169.9	4305.3	8610.7	17221.3	
15.6	95.61	95.01	92.6	71.94	80.06	83.80	87.70	88.35	82.51	70.92	55.83	28.35	-20.78	-101.41
15.7	101.21	100.31	97.5	73.00	82.31	89.04	92.10	93.30	88.95	78.99	60.84	45.32	7.47	-54.34
15.8	104.41	103.11	100.2	73.94	83.27	91.30	94.71	96.14	92.06	83.43	73.02	55.03	23.83	-24.76
15.9	106.81	105.31	102.3	73.00	83.96	92.28	97.03	99.40	94.41	86.84	77.28	61.81	34.77	-20.46
16.0	107.61	105.81	102.9	72.73	82.76	91.86	97.00	99.01	94.92	87.56	79.10	65.06	41.27	3.21
16.1	107.51	105.71	102.6	72.09	81.32	90.00	95.77	97.80	94.00	87.00	79.01	60.96	49.41	11.12
16.2	100.71	104.61	101.4	70.25	79.43	88.71	95.49	97.99	94.13	87.55	80.12	68.16	48.30	16.86
16.3	103.11	102.71	99.5	69.43	79.40	88.93	95.11	97.74	93.78	86.98	79.89	68.62	50.06	20.01
16.4	103.41	100.61	97.5	68.18	76.10	84.22	90.34	93.40	91.78	86.40	79.58	68.65	51.29	23.74
16.5	102.11	99.11	95.0	68.14	75.19	82.45	88.80	91.90	90.29	85.70	79.09	68.78	52.01	25.79
16.6	100.81	97.71	94.4	67.37	75.05	81.77	86.92	89.92	88.70	84.76	78.30	68.31	52.16	24.97
16.7	100.11	96.81	93.3	67.09	74.30	80.50	86.00	88.65	87.72	84.50	78.17	68.43	52.78	28.35
16.8	99.31	95.81	92.6	67.28	74.12	80.45	84.99	87.35	86.65	84.33	78.09	68.53	53.19	29.37
16.9	99.01	95.41	92.2	67.45	73.42	80.08	84.44	87.03	86.27	83.92	77.74	68.31	53.20	29.78
17.0	98.21	94.71	91.4	66.85	73.00	79.61	83.79	86.65	85.56	83.09	76.95	67.59	52.82	29.43
17.1	97.51	94.01	90.8	66.84	72.64	79.24	83.66	85.79	84.93	82.21	76.08	66.75	51.83	28.72
17.2	96.81	93.31	90.2	66.45	72.21	78.34	82.43	85.55	84.04	81.33	75.19	65.43	50.84	27.67
17.3	96.01	92.51	89.3	66.00	71.74	77.84	81.70	84.70	83.29	80.65	74.68	65.04	49.94	26.62
17.4	95.01	91.61	88.5	65.00	70.84	76.84	80.39	83.67	82.21	79.65	73.41	63.85	48.51	24.69
17.5	94.11	90.81	87.7	64.76	69.97	75.78	79.66	83.34	81.48	78.70	72.37	62.63	46.95	22.54
17.6	93.41	90.21	87.0	63.53	68.92	74.55	78.78	82.01	80.63	77.84	71.39	61.40	45.25	20.06

WIND NUMBER	27H.00 (752.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	9.400
PRIMARY TEMPERATURE (°F)	473.000
SECONDARY TEMPERATURE (°F)	543.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	2.007
VELOCITY RATIO	0.500
PRIMARY VELOCITY (FT/SEC)	1800.200
MASS-FLUX RATIO	1.071
PRIMARY MASS FLOW (LB/SEC)	0.325
THRUST (LBS)	29.450
ENVIRONMENTAL TEMPERATURE (°R)	543.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	34.000
CALIBRATION FACTOR (LV TO DT/50 CM)	0.174
INSTRUMENTATION NOISE FLOOR (DB)	74.549

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.43297E+01	145.4	THRUST	POWER LEVEL (DB)
500	7.37565E-02	118.7	10000	170.7
1000	1.44630E-00	131.8	20000	173.7
2000	3.10520E+00	134.9	40000	176.7
4000	6.38816E+00	139.2	80000	179.7
8000	1.14415E+01	140.8		
16000	6.72236E+00	136.3		
31500	2.66027E+00	134.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	4000	8000	16000	31500	OVERALL
15.0	95.9	118.5	111.2	112.6	113.2	108.2	102.0	121.1	
20.0	98.7	107.2	113.2	115.2	115.9	112.1	106.4	120.8	
25.0	97.4	107.1	114.0	116.0	117.0	114.7	109.3	122.4	
30.0	96.0	105.0	113.4	117.6	118.8	116.0	110.8	123.2	
35.0	93.0	103.5	112.2	117.4	118.3	115.5	111.0	122.8	
40.0	91.3	100.9	109.9	116.1	117.6	114.6	109.9	121.8	
45.0	84.0	95.1	100.7	112.9	113.7	112.4	109.5	119.2	
50.0	87.0	95.6	103.8	109.4	112.4	110.6	107.5	116.7	
55.0	85.5	93.5	100.9	106.4	109.6	108.6	105.7	114.2	
60.0	85.0	91.8	98.0	104.1	107.5	107.0	104.5	112.3	
65.0	84.4	91.1	97.4	101.9	104.9	104.4	103.1	110.1	
70.0	83.4	90.6	96.5	101.0	103.6	103.4	102.2	109.0	
75.0	82.4	89.6	95.0	99.7	101.9	102.3	101.1	107.6	
80.0	83.1	89.3	95.3	99.0	101.1	101.5	100.0	106.9	
85.0	83.1	88.9	94.5	97.3	100.2	100.8	99.2	106.0	
90.0	82.5	88.1	93.4	96.7	99.5	99.0	97.9	104.9	
100.0	81.4	87.5	93.0	96.0	99.5	98.3	97.1	104.4	
110.0	81.3	87.1	92.3	95.4	98.9	97.4	96.4	103.8	
115.0	80.6	86.5	91.1	94.5	98.3	96.7	95.1	103.2	

MODEL THRUST = 29.450 FULL SCALE THRUST = 20000.000

L	PNDR	045PL	OCTAVE BAND	19.2	38.4	76.7	153.5	307.0	614.0	1228.8	2417.5	4796.7	9593.3	19186.7
795.4	93.9 (93.4)	94.2	69.52	92.07	84.67	85.73	84.41	77.46	66.52	49.91	19.75	-33.56	-120.08	
385.7	99.4 (48.5)	45.9	74.73	63.20	84.17	40.44	40.91	89.13	74.06	61.56	38.81	-37.08	-69.27	
549.3	103.4 (102.3)	94.3	75.47	84.97	91.74	94.22	94.61	90.17	81.08	69.74	50.11	16.30	-37.85	
800.0	106.3 (105.0)	101.7	75.37	84.73	92.64	90.72	47.41	93.26	84.95	74.91	57.85	28.81	-17.43	
815.2	107.4 (105.8)	102.5	74.34	84.85	92.86	47.74	94.23	94.27	87.03	77.84	62.64	36.94	-3.75	
950.0	107.4 (100.0)	102.5	74.34	84.85	92.86	47.74	94.23	94.27	87.03	77.84	62.64	36.94	-3.75	
121.3	106.4 (104.4)	100.8	70.90	80.43	88.44	95.04	47.06	43.69	87.21	79.23	66.29	44.88	11.31	
158.1	105.0 (102.4)	98.4	70.01	78.66	86.74	92.29	46.94	42.63	87.21	79.23	66.29	44.88	11.31	
831.2	103.1 (100.7)	47.0	69.08	77.10	84.51	89.45	92.82	91.19	86.19	78.69	67.31	48.42	19.03	
732.1	102.1 (94.2)	45.6	69.14	75.86	82.96	88.17	91.14	84.49	84.62	78.54	67.44	49.40	21.44	
855.1	100.8 (97.4)	43.8	69.00	75.46	81.47	84.25	84.97	87.99	84.72	77.83	67.08	49.71	22.86	
504.5	94.4 (90.7)	43.1	68.43	75.44	81.47	84.25	84.97	87.99	84.72	77.83	67.08	49.71	22.86	
542.9	94.0 (90.7)	42.1	68.67	74.66	80.44	84.54	84.59	86.26	83.51	76.86	66.59	50.11	24.72	
523.1	94.1 (94.1)	41.4	68.31	74.45	80.40	84.10	84.45	85.64	82.63	76.06	65.92	49.70	24.75	
505.7	94.1 (94.1)	40.7	68.41	74.37	79.46	83.17	84.14	84.49	81.95	74.41	65.36	49.24	24.59	
500.0	94.0 (94.0)	40.3	68.65	74.10	74.41	82.51	84.14	84.14	81.24	74.72	64.70	48.64	24.06	
505.7	94.1 (94.1)	40.4	67.85	73.65	74.47	81.44	84.74	83.33	81.56	74.02	63.67	47.90	23.20	
423.1	94.1 (94.1)	40.4	67.85	73.65	74.47	81.44	84.74	83.33	81.56	74.02	63.67	47.90	23.20	
552.5	94.1 (91.7)	40.2	66.34	72.15	77.15	81.16	84.53	81.15	74.96	72.31	62.03	45.55	20.17	
504.3	94.1 (91.0)	40.5	65.41	71.16	76.41	80.42	83.17	80.45	77.43	71.08	60.61	43.75	17.74	
655.1	93.4 (90.7)	37.0	65.09	70.02	75.44	74.47	81.39	80.03	76.74	69.47	59.12	41.75	14.90	

RUN NUMBER	279.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.800
PRIMARY TEMPERATURE (IN)	911.000
SECONDARY TEMPERATURE (IN)	942.000
PRIMARY PRESSURE (PSI)	3.300
AREA RATIO	4.856
VELOCITY RATIO	423
PRIMARY VELOCITY (FT/SEC)	1798.183
MASS FLOW RATIO	1.321
PRIMARY MASS FLOW (LR/SEC)	1.327
THRUST (LBS)	29.988
ENVIRONMENTAL TEMPERATURE (IN)	541.000
ENVIRONMENTAL PRESSURE (IN.MG)	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	33.000
CALIBRATION FACTOR INV TO D7730 C-7	1.00
INSTRUMENTATION NOISE FLOOR (DB)	69.579

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL: SCALED FOR THRUST	
OVERALL	1.22363E+01	140.9	THRUST	POWER LEVEL (DB)
500	1.03700E-01	120.2	20000	166.1
1000	6.21521E-01	127.9	20000	169.1
2000	2.20290E+00	133.4	20000	172.1
4000	3.55548E+00	135.9	20000	175.1
8000	3.42817E+00	135.4		
16000	1.65310E+00	132.1		
31500	6.91385E-01	128.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	101.3	100.2	110.5	107.0	102.0	99.9	93.1	114.5
20.0	100.4	100.1	111.7	109.7	104.5	99.3	93.5	115.5
25.0	98.9	105.9	112.5	112.2	108.2	100.8	94.5	116.8
30.0	96.7	105.8	111.9	113.6	111.5	104.9	97.9	117.8
35.0	94.6	105.3	110.5	113.7	112.9	107.5	100.4	118.0
40.0	91.7	100.6	108.1	112.5	113.1	108.6	102.2	117.4
45.0	89.0	97.0	105.1	109.9	111.5	108.1	102.7	115.8
50.0	87.3	95.2	102.2	106.5	108.5	106.5	102.4	113.0
55.0	85.8	93.0	99.3	103.3	105.9	104.6	102.0	110.6
60.0	85.1	91.9	97.4	101.4	103.9	103.2	101.8	109.1
65.0	85.1	90.6	96.2	99.9	102.9	101.9	100.6	107.6
70.0	84.4	90.1	95.1	98.6	100.7	101.0	99.6	106.6
75.0	84.4	89.5	94.6	97.2	99.5	100.1	98.0	105.3
80.0	83.5	88.7	93.9	96.7	98.7	99.1	97.6	104.7
85.0	83.2	88.5	93.5	96.0	98.0	98.0	96.7	104.0
90.0	82.6	87.6	92.6	95.2	97.5	97.7	95.9	103.3
95.0	82.3	86.0	92.0	94.7	97.0	97.0	95.2	102.7
100.0	82.0	84.5	91.5	93.8	96.6	96.6	94.6	102.1
105.0	81.2	85.7	90.0	92.3	95.1	95.1	94.1	101.6
110.0	80.8	85.6	90.5	93.1	95.6	95.6	93.8	101.2
115.0	81.2	84.9	90.0	92.6	95.1	95.1	93.1	100.7

MODEL THRUST = 29.988 FULL SCALE THRUST = 20000.000

LV	PNDB	OSPL	OCTAVE 19.4	BAND 38.7	SOUND 77.4	PRESSURE 154.9	LEVELS 309.8	619.6	1219.8	2439.5	4840.3	9680.6	19361.1
8795.6	86.41	86.01	87.7	74.84	81.70	83.94	80.86	74.09	69.39	56.59	39.84	9.46	-44.22 -131.24
4385.7	90.01	90.31	91.2	76.31	83.98	87.93	85.30	79.41	72.27	61.79	48.38	28.86	-16.69 -83.27
3544.3	95.01	94.31	94.3	76.70	84.72	90.16	89.75	85.09	76.09	66.10	54.68	34.91	.88 -53.58
3000.0	99.01	98.11	96.7	75.92	85.01	91.12	92.01	89.98	82.11	71.90	61.79	44.61	15.38 -31.11
2616.2	101.51	100.41	98.0	75.03	83.75	90.43	93.98	92.68	86.14	76.34	67.13	51.77	25.91 -15.01
2333.6	102.71	101.31	98.3	73.17	82.08	89.47	93.75	93.78	87.00	79.97	71.03	67.01	33.80 -3.23
2121.3	102.41	100.61	97.2	71.83	80.10	87.35	91.98	93.25	88.86	81.27	73.23	60.21	38.66 4.91
1958.1	101.71	98.81	95.2	70.22	78.12	85.11	89.26	90.99	88.15	81.97	74.33	62.07	41.95 10.56
1831.2	99.61	97.11	93.4	69.37	76.52	82.75	88.67	89.01	86.92	82.32	74.98	63.32	44.31 14.76
1732.1	98.81	95.91	92.3	69.14	75.90	81.36	87.97	87.03	85.84	82.84	75.75	64.57	46.42 18.31
1655.1	97.41	94.81	91.3	69.55	75.04	80.55	86.15	86.04	84.14	82.12	75.10	64.37	46.90 19.90
1596.3	97.31	94.11	90.5	69.11	74.74	79.74	83.25	85.01	84.61	81.80	74.81	64.27	47.31 21.17
1552.9	96.41	93.41	89.7	69.35	74.43	79.53	82.07	84.06	84.01	80.84	74.18	63.84	47.26 21.75
1523.1	95.41	92.71	89.1	68.64	73.74	78.94	81.60	83.44	83.17	80.08	73.47	63.27	48.95 21.87
1505.7	95.71	92.21	88.6	68.44	73.72	78.66	81.11	82.08	82.72	79.29	72.72	62.61	46.44 21.61
1500.0	94.41	91.41	87.4	67.90	72.83	77.49	80.33	82.42	81.91	74.55	71.49	61.91	48.79 21.04
1505.7	95.71	93.71	87.3	67.54	71.99	77.23	79.84	81.86	81.21	77.77	71.20	61.09	44.42 20.09
1523.1	93.71	90.11	84.9	67.10	71.48	76.00	78.91	81.36	80.65	77.18	70.50	60.31	45.99 19.91
1552.9	92.51	89.41	85.4	66.21	70.43	75.71	78.13	80.68	79.09	74.34	69.65	59.31	42.74 17.22
1596.3	91.71	88.71	85.2	65.54	70.35	75.10	77.67	79.48	79.22	74.73	68.94	58.40	47.44 15.30
1655.1	90.71	87.61	84.4	65.60	69.26	74.37	76.91	79.10	78.34	74.49	67.76	56.94	39.47 12.44

MUN NUMBER	240.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.000
PRIMARY TEMPERATURE (°F)	403.000
SECONDARY TEMPERATURE (°F)	542.000
PRIMARY PNEUMATIC RATIO	3.900
AREA RATIO	4.456
VELOCITY RATIO	1.579
PRIMARY VELOCITY (FT/SEC)	1800.200
MASS FLOW RATIO	2.190
PRIMARY MASS FLOW (LB/SEC)	3.328
THRUST (LBS)	41.641
ENVIRONMENTAL TEMPERATURE (°R)	539.000
ENVIRONMENTAL PRESSURE (IN. HG)	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	32.000
CALIBRATION FACTOR (IN. TO CM)	1.27
INSTRUMENTATION NOISE FLOOR (DB)	71.587

MUSIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.72316E+01	142.4	THRUST	POWER LEVEL (DB)
500	2.73058E-01	124.4	10000	166.2
1000	1.56470E+00	131.9	20000	169.2
2000	4.54137E+00	136.6	40000	172.2
4000	5.07847E+00	137.1	80000	175.2
8000	3.34912E+00	135.2		
16000	1.55530E+00	131.9		
31500	8.71633E-01	129.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	145.4	111.7	113.1	149.0	102.9	99.0	93.4	117.0
20.0	104.7	112.3	114.6	111.1	104.1	98.2	93.4	118.1
25.0	103.1	111.3	115.1	112.3	106.2	98.6	94.1	118.5
30.0	101.3	109.4	114.8	113.8	108.6	100.7	96.1	118.7
35.0	98.6	107.3	113.7	114.8	111.2	103.8	99.2	118.8
40.0	96.4	104.4	111.4	113.9	112.3	106.0	100.7	118.1
45.0	93.4	101.9	108.9	112.1	111.7	106.3	101.6	116.7
50.0	91.6	99.2	105.8	108.7	109.2	106.0	102.9	114.2
55.0	89.6	96.8	103.2	106.1	107.1	105.2	102.9	112.4
60.0	87.3	94.2	101.8	104.4	105.6	104.7	102.5	111.2
65.0	85.7	91.1	100.6	103.0	104.1	103.5	101.9	110.0
70.0	83.5	88.3	100.0	102.1	102.8	102.6	101.1	109.0
75.0	80.8	85.5	98.6	101.1	101.0	101.0	100.3	108.1
80.0	87.8	92.5	97.8	100.4	101.0	101.0	99.7	107.3
85.0	86.4	92.1	97.6	99.0	100.3	100.3	98.6	106.7
90.0	85.6	91.9	96.7	99.6	99.8	99.8	98.6	106.2
95.0	85.0	91.3	95.4	99.4	99.3	99.3	98.1	105.6
100.0	85.0	90.3	96.1	99.3	98.9	98.9	97.8	105.5
105.0	85.0	90.3	95.2	98.8	98.0	97.0	97.7	105.1
110.0	85.0	89.4	95.2	98.7	98.4	98.4	97.3	104.9
115.0	84.9	89.0	95.1	98.0	98.2	98.2	97.2	104.8

MODEL THRUST = 41.641 FULL SCALE THRUST = 20000.000

LV	PH00	0A5PL	OCTAVE 22.8	BAND 45.6	SOUND 91.3	PRESSURE 162.6	LEVELS 365.0	730.1	1437.3	2874.7	5703.7	11407.4	22814.8
8795.6	87.51	87.21	88.8	77.50	83.81	85.07	80.53	73.19	66.07	53.02	33.63	-1.27	-61.93
8985.7	91.71	91.31	92.4	79.22	86.79	89.02	85.16	77.21	68.90	58.48	43.07	25.93	-30.70
3549.3	94.81	94.41	94.6	79.45	87.64	91.31	80.52	81.49	72.11	62.87	49.83	27.29	-11.02
2615.2	100.01	99.11	97.5	77.63	86.34	92.68	91.38	85.40	75.95	67.45	55.97	38.45	-3.80
2333.6	101.71	100.41	97.0	76.44	84.49	91.04	93.70	91.06	85.99	75.67	60.97	43.84	14.83
1958.1	100.81	99.11	95.1	73.10	80.70	87.78	90.03	80.10	65.81	60.25	51.71	37.93	35.45
1732.1	100.01	97.41	93.7	71.93	78.45	85.28	88.03	86.07	80.73	81.10	72.92	59.84	38.62
1658.1	98.81	96.41	92.1	71.67	78.04	83.50	86.07	84.59	85.07	81.39	73.49	60.96	40.73
1506.7	96.21	95.31	91.5	71.70	77.65	83.25	85.79	84.51	84.51	80.97	73.60	61.07	47.79
1352.9	97.61	95.01	90.8	71.00	77.07	82.07	84.53	84.87	84.00	80.54	73.15	61.40	43.15
1523.1	97.11	94.61	90.2	71.55	76.20	81.44	83.41	84.00	83.41	80.13	72.82	61.44	43.29
1505.7	96.01	93.91	89.7	70.20	75.84	81.37	83.47	83.63	82.81	79.57	72.32	61.03	43.05
1500.0	96.11	93.51	89.3	69.69	75.76	80.49	83.31	83.18	82.38	79.20	71.96	60.70	42.77
1508.7	93.61	93.01	88.4	69.37	75.12	79.46	83.08	82.44	81.77	78.71	71.45	60.16	42.18
1523.1	94.21	92.41	88.4	64.47	70.44	76.33	82.46	82.15	81.11	78.22	70.41	60.59	41.37
1552.9	96.71	92.11	87.9	68.50	73.45	78.74	82.19	81.66	80.76	77.87	70.47	58.93	40.44
1546.3	94.01	91.61	87.4	68.76	73.68	78.50	81.91	81.24	80.30	77.18	69.65	57.86	38.98
1655.1	93.61	90.91	86.9	67.30	71.46	78.07	81.63	80.65	79.75	76.60	68.92	60.80	37.36

HUM NUMBER	= 201.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (°F)	= 898.000
SECONDARY TEMPERATURE (°F)	= 538.000
PRIMARY PRESSURE-RATIO	= 3.500
AREA RATIO	= 9.788
VELOCITY RATIO	= 1.420
PRIMARY VELOCITY (FT/SEC)	= 1803.221
MASS FLOW RATIO	= 5.170
PRIMARY MASS FLOW (LB/SEC)	= 3.325
THRUST (LBS)	= 87.762
ENVIRONMENTAL TEMPERATURE (°F)	= 538.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 34.000
CALIBRATION FACTOR (MV TO 0.750 CM)	= 1.199
INSTRUMENTATION NOISE FLOOR (DB)	= 75.578

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.44329E+01	146.5	THRUST	POWER LEVEL (DB)
500	1.07465E-01	120.3	10000	160.9
1000	6.28290E-01	128.0	20000	171.9
2000	3.16569E+00	135.0	40000	174.9
4000	1.08558E+01	140.3	80000	177.9
8000	1.57695E+01	142.0		
16000	9.57671E+00	139.7		
31500	4.72962E+00	136.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
20.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
25.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30.0	97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
35.0	95.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40.0	93.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
45.0	91.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50.0	89.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
55.0	87.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	86.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
65.0	85.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
70.0	85.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
75.0	85.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
80.0	85.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
85.0	84.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
90.0	84.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
95.0	83.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	82.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
105.0	82.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
110.0	81.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
115.0	81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MODEL THRUST = 57.762 FULL SCALE THRUST = 20000.000

LT	PNDB	CASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	26.9	53.7	107.5	215.0	429.9	859.9	1692.8	3365.7	6717.6	13435.2	26870.7
5795.4	94.7 (94.5)	91.8	70.67	76.43	80.04	90.85	80.79	74.63	59.87	37.45	-2.49	-70.70	-176.56					
3369.7	95.6 (95.1)	91.0	72.92	80.00	84.19	85.98	86.06	81.01	64.31	51.01	20.85	-31.69	-112.53					
3549.3	100.3 (99.6)	95.2	73.32	81.34	84.05	84.85	90.57	85.83	75.32	60.42	34.80	-8.13	-74.13					
3000.0	104.1 (103.3)	98.0	73.43	82.78	90.18	93.53	94.24	89.42	80.66	67.60	45.48	9.73	-47.57					
2615.2	105.9 (104.3)	100.0	72.71	81.53	84.90	94.07	96.05	92.05	82.76	71.00	51.32	16.90	-30.51					
2339.4	107.1 (106.0)	101.1	71.04	80.70	89.12	95.49	97.10	92.80	83.69	73.07	59.19	29.94	-18.48					
2121.3	107.2 (105.3)	97.7	70.78	79.26	87.23	93.51	96.04	91.40	80.02	70.91	63.30	36.53	-4.12					
1948.1	104.7 (102.8)	97.3	69.65	77.49	83.23	90.98	93.75	90.61	83.68	74.12	58.64	33.01	-8.14					
1831.2	102.5 (100.7)	95.4	69.65	76.14	82.71	88.29	91.67	89.45	83.03	73.89	59.22	35.62	1.12					
1732.1	100.0 (98.7)	93.4	67.02	74.70	81.09	86.74	89.33	87.44	81.85	73.05	59.01	36.52	2.78					
1655.1	99.4 (97.3)	91.9	68.02	74.31	80.39	84.47	87.46	86.00	81.44	72.89	59.34	37.72	4.35					
1598.1	98.7 (96.5)	91.0	68.99	73.77	79.98	83.78	86.41	84.77	80.76	72.41	59.74	38.78	6.95					
1552.9	98.1 (95.8)	90.1	67.70	73.44	78.43	82.65	85.51	83.04	80.37	72.16	59.26	38.79	4.23					
1523.1	97.3 (95.1)	89.4	67.40	72.88	78.70	82.76	84.43	83.46	79.42	71.32	58.61	38.47	4.44					
1505.7	96.2 (94.0)	88.1	67.00	72.71	77.46	81.14	82.68	82.44	78.48	70.44	57.84	37.90	4.17					
1500.0	95.4 (93.2)	87.4	66.51	72.16	77.31	80.37	81.79	81.64	77.81	69.59	57.03	37.15	7.57					
1505.7	94.7 (92.4)	86.7	65.92	71.51	76.50	78.18	81.63	80.78	74.90	68.85	56.75	36.31	6.90					
1523.1	93.9 (91.7)	85.9	65.22	70.79	75.77	78.51	81.51	80.14	74.33	67.92	55.71	35.08	5.05					
1552.9	93.3 (90.8)	85.4	64.60	69.95	75.38	77.72	80.77	74.42	74.90	66.79	53.49	33.42	2.46					
1596.3	92.0 (89.9)	84.7	63.47	68.82	74.70	76.42	80.27	78.71	73.99	65.44	52.47	31.51	1.18					
1655.1	91.4 (89.5)	84.1	63.16	68.04	73.44	75.60	80.29	77.89	73.07	64.52	50.97	29.35	-3.02					

WIND NUMBER	282.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.800
PRIMARY TEMPERATURE (K)	844.000
SECONDARY TEMPERATURE (K)	540.000
PRIMARY PRESSURE-RATIO	3.500
AREA RATIO	9.744
VELOCITY RATIO	0.578
PRIMARY VELOCITY (FT/SEC.)	1802.215
MASS FLOW RATIO	7.744
PRIMARY MASS FLOW (LB/SEC)	0.325
THRUST (LBS)	101.860
ENVIRONMENTAL TEMPERATURE (R)	536.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	38.000
CALCULATION FACTOR (IN. TO METRIC CM)	0.252
INSTRUMENTATION NOISE FLOOR (DB)	77.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.07128E-01	147.8	THRUST	POWER LEVEL (DB)
500	3.67908E-01	125.7	10000	167.8
1000	1.60771E-00	132.2	20000	170.8
2000	6.50920E-00	138.1	40000	173.8
4000	1.39541E-01	141.4	80000	176.8
8000	2.14217E-01	143.3		
16000	1.42512E-01	140.4		
31500	4.47050E-00	136.5		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	105.4	109.5	111.6	111.6	111.5	109.1	107.4	110.2
20.0	104.6	110.7	112.0	114.0	114.5	112.1	106.4	120.3
25.0	103.5	110.5	114.0	115.8	115.5	114.5	109.0	122.7
30.0	101.5	109.7	116.1	117.5	118.5	116.1	111.0	123.6
35.0	100.5	108.4	115.7	119.0	119.8	118.5	111.5	124.4
40.0	97.9	106.3	114.7	119.4	120.9	117.5	112.0	125.0
45.0	96.5	104.0	111.0	119.5	120.5	117.0	111.4	124.0
50.0	94.5	102.3	109.3	114.2	117.5	115.5	110.4	121.4
55.0	93.4	100.3	106.9	111.7	116.5	114.5	109.9	118.5
60.0	92.4	98.7	105.0	108.7	111.9	110.9	107.9	116.4
65.0	92.1	98.2	103.7	107.5	110.0	109.3	107.0	115.1
70.0	91.4	97.0	102.4	105.9	108.1	108.0	106.3	113.6
75.0	91.0	96.5	101.5	104.5	107.2	107.0	105.5	112.7
80.0	90.7	96.0	101.3	104.1	105.8	106.8	105.3	112.2
85.0	90.3	95.4	100.7	102.9	104.5	104.9	104.7	110.6
90.0	89.6	95.2	99.8	102.2	104.4	104.4	101.4	110.0
95.0	89.4	94.1	99.1	101.6	104.4	103.8	101.9	109.5
100.0	88.5	94.1	98.8	100.4	103.5	103.5	100.4	109.0
105.0	87.6	93.9	97.9	100.4	103.5	102.0	100.4	108.4
110.0	86.5	92.9	96.4	100.3	102.7	102.6	98.4	108.5
115.0	87.1	92.4	96.2	99.4	102.5	102.5	99.0	107.8

MODEL THRUST = 101.860 FULL SCALE THRUST = 20000.000

ANGLE	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	105.4	109.5	111.6	111.6	111.5	109.1	107.4	110.2
20.0	104.6	110.7	112.0	114.0	114.5	112.1	106.4	120.3
25.0	103.5	110.5	114.0	115.8	115.5	114.5	109.0	122.7
30.0	101.5	109.7	116.1	117.5	118.5	116.1	111.0	123.6
35.0	100.5	108.4	115.7	119.0	119.8	118.5	111.5	124.4
40.0	97.9	106.3	114.7	119.4	120.9	117.5	112.0	125.0
45.0	96.5	104.0	111.0	119.5	120.5	117.0	111.4	124.0
50.0	94.5	102.3	109.3	114.2	117.5	115.5	110.4	121.4
55.0	93.4	100.3	106.9	111.7	116.5	114.5	109.9	118.5
60.0	92.4	98.7	105.0	108.7	111.9	110.9	107.9	116.4
65.0	92.1	98.2	103.7	107.5	110.0	109.3	107.0	115.1
70.0	91.4	97.0	102.4	105.9	108.1	108.0	106.3	113.6
75.0	91.0	96.5	101.5	104.5	107.2	107.0	105.5	112.7
80.0	90.7	96.0	101.3	104.1	105.8	106.8	105.3	112.2
85.0	90.3	95.4	100.7	102.9	104.5	104.9	104.7	110.6
90.0	89.6	95.2	99.8	102.2	104.4	104.4	101.4	110.0
95.0	89.4	94.1	99.1	101.6	104.4	103.8	101.9	109.5
100.0	88.5	94.1	98.8	100.4	103.5	103.5	100.4	109.0
105.0	87.6	93.9	97.9	100.4	103.5	102.0	100.4	108.4
110.0	86.5	92.9	96.4	100.3	102.7	102.6	98.4	108.5
115.0	87.1	92.4	96.2	99.4	102.5	102.5	99.0	107.8

RUN NUMBER	245,000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (IN.)	0.000
PRIMARY TEMPERATURE (IN)	123.000
SECONDARY TEMPERATURE (IN)	540.000
PRIMARY PRESSURE RATIO	1.400
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	1372.131
MASS FLOW RATIO	1.747
PRIMARY MASS FLOW (LB/SEC)	1.147
THRUST (LBS)	14.227
ENVIRONMENTAL TEMPERATURE (IN)	553.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	29.000
CALIBRATION FACTOR (IN. TO INCHES)	0.036
INSTRUMENTATION NOISE FLOOR (DB)	60.506

ISIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	1.01403E+00	131.5	THRUST 10000 POWER LEVEL (DB) 140.0
500	9.49387E-03	109.8	20000 143.0
1000	6.67003E-02	110.2	40000 146.0
2000	3.02047E-01	124.8	80000 149.0
4000	3.03892E-01	127.0	
8000	3.55620E-01	125.5	
16000	1.30700E-01	121.2	
31500	4.54098E-02	116.6	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	2000	4000	PRESSURE LEVEL	10000	21500	OVERALL
15.0	89.0	87.3	88.3	100.0	89.1	89.0	10.0	104.0
30.0	89.0	87.4	102.5	102.0	89.1	87.1	81.5	107.2
45.0	87.7	89.0	103.4	103.4	89.2	89.0	87.7	107.0
60.0	86.7	89.0	103.1	100.7	100.0	89.0	85.5	108.4
75.0	86.9	89.1	101.0	104.0	102.6	89.0	87.3	108.3
90.0	83.0	88.1	99.7	103.3	102.0	89.0	80.5	107.3
105.0	82.0	89.0	97.3	101.0	100.0	89.0	80.0	105.7
120.0	79.5	88.2	95.3	98.0	99.2	89.0	80.7	104.0
135.0	78.1	88.1	93.1	96.0	97.1	89.7	81.3	102.8
150.0	76.4	86.4	91.2	94.0	95.7	89.4	80.0	100.9
165.0	75.0	85.0	89.3	92.7	94.3	89.4	80.4	99.7
180.0	74.5	81.9	88.2	91.2	92.0	91.4	87.9	97.7
195.0	74.9	87.1	88.0	89.7	91.7	89.7	89.7	99.3
210.0	74.5	81.1	88.7	89.4	90.9	89.0	89.0	98.0
225.0	74.3	80.2	88.2	89.1	90.2	88.0	89.0	97.0
240.0	73.6	80.2	85.3	88.0	89.1	87.6	86.6	96.4
255.0	72.8	78.6	84.3	86.4	88.1	86.4	85.0	95.0
270.0	72.2	78.4	80.3	84.1	87.3	86.2	85.0	93.3
285.0	71.0	77.0	80.4	84.0	86.3	85.5	85.3	92.7
300.0	71.0	76.0	80.5	84.0	86.3	85.5	85.3	92.2
315.0	71.0	76.0	80.5	84.0	86.3	85.5	85.3	91.7

MODEL THRUST = 14.227 FULL SCALE THRUST = 20000.000

ANGLE (DEG)	500	OCTAVE BAND	2000	4000	PRESSURE LEVEL	10000	21500	OVERALL
15.0	89.0	87.3	88.3	100.0	89.1	89.0	10.0	104.0
30.0	89.0	87.4	102.5	102.0	89.1	87.1	81.5	107.2
45.0	87.7	89.0	103.4	103.4	89.2	89.0	87.7	107.0
60.0	86.7	89.0	103.1	100.7	100.0	89.0	85.5	108.4
75.0	86.9	89.1	101.0	104.0	102.6	89.0	87.3	108.3
90.0	83.0	88.1	99.7	103.3	102.0	89.0	80.5	107.3
105.0	82.0	89.0	97.3	101.0	100.0	89.0	80.0	105.7
120.0	79.5	88.2	95.3	98.0	99.2	89.0	80.7	104.0
135.0	78.1	88.1	93.1	96.0	97.1	89.7	81.3	102.8
150.0	76.4	86.4	91.2	94.0	95.7	89.4	80.0	100.9
165.0	75.0	85.0	89.3	92.7	94.3	89.4	80.4	99.7
180.0	74.5	81.9	88.2	91.2	92.0	91.4	87.9	97.7
195.0	74.9	87.1	88.0	89.7	91.7	89.7	89.7	99.3
210.0	74.5	81.1	88.7	89.4	90.9	89.0	89.0	98.0
225.0	74.3	80.2	88.2	89.1	90.2	88.0	89.0	97.0
240.0	73.6	80.2	85.3	88.0	89.1	87.6	86.6	96.4
255.0	72.8	78.6	84.3	86.4	88.1	86.4	85.0	95.0
270.0	72.2	78.4	80.3	84.1	87.3	86.2	85.0	93.3
285.0	71.0	77.0	80.4	84.0	86.3	85.5	85.3	92.7
300.0	71.0	76.0	80.5	84.0	86.3	85.5	85.3	92.2
315.0	71.0	76.0	80.5	84.0	86.3	85.5	85.3	91.7

RUN NUMBER	786.000
AIRAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.800
PRIMARY TEMPERATURE (°F)	1242.000
SECONDARY TEMPERATURE (°F)	570.000
PRIMARY PRESSURE-RATIO	1.600
AREA RATIO	2.007
VELOCITY RATIO	1.378
PRIMARY VELOCITY (FT/SEC)	1374.344
MASS FLOW RATIO	1.433
PRIMARY MASS FLOW (LB/SEC)	1.143
THRUST (LBS)	9.136
ENVIRONMENTAL TEMPERATURE (°F)	554.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	30.000
CALIBRATION FACTOR (MV TO GV/30 CM)	1.022
INSTRUMENTATION NOISE FLOOR (DB)	56.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.38995E-01	126.4	THRUST	POWER LEVEL (DB)
500	1.30292E-03	101.1	10000	156.8
1000	4.22017E-03	109.1	20000	159.8
2000	5.82101E-02	117.4	40000	162.8
4000	1.55225E-01	121.9	80000	165.4
8000	1.53551E-01	121.9		
10000	4.91740E-02	116.7		
31500	1.43001E-02	112.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 10000	31500	OVER REL
15.0	63.6	66.6	66.6	66.6	66.6	66.6	61.1	102.9
20.0	70.1	68.5	68.4	69.5	69.3	61.6	64.1	103.6
25.0	78.7	67.8	68.3	68.3	69.7	62.5	64.5	104.3
30.0	77.1	66.4	65.3	100.0	68.9	61.4	65.1	103.7
35.0	76.3	66.7	66.4	69.4	69.3	61.7	67.0	103.1
40.0	74.6	63.4	62.1	67.5	67.6	62.3	66.9	101.9
45.0	70.4	61.1	60.0	65.6	65.4	61.4	66.0	100.9
50.0	70.0	70.8	67.2	62.5	63.8	61.2	66.4	98.2
55.0	67.0	70.0	64.1	60.0	61.0	60.0	65.7	95.9
60.0	67.0	74.6	62.2	67.2	69.7	68.2	64.4	94.1
65.0	66.1	63.6	60.4	65.7	68.2	68.7	63.3	92.7
70.0	65.1	73.1	74.7	66.4	67.6	65.4	62.5	91.6
75.0	65.1	67.0	69.0	62.4	65.4	64.4	61.4	90.5
80.0	65.1	71.6	78.1	62.3	64.4	62.6	70.5	89.0
85.0	64.5	71.6	77.5	61.0	63.4	62.0	70.5	88.3
90.0	64.5	70.4	76.5	60.3	62.3	60.4	70.2	87.2
95.0	63.4	70.4	75.4	60.4	61.4	59.4	71.3	86.3
100.0	62.6	69.1	74.8	78.7	60.3	76.8	76.4	85.3
105.0	65.0	68.0	74.0	60.0	60.0	70.0	70.0	84.0
110.0	61.0	68.4	73.4	77.5	70.1	77.0	75.6	84.2
115.0	61.0	67.0	73.1	77.0	70.4	76.5	74.1	83.3

MODEL THRUST = 9.136 FULL SCALE THRUST = 20000.000

LT	PHON	OSPL	OCTAVE		BAND	SOUND	PRESSURE	LEVELS	3150.5	2071.6	5303.3	10494.6
			10.7	21.5	42.7	85.5	171.0	342.0	673.3	1346.5	2691.6	5383.3
8789.4	80.31	70.51	61.2	62.31	67.28	74.19	76.47	76.45	86.46	94.76	45.30	27.24
8385.7	80.61	63.51	60.7	60.10	69.89	77.39	80.48	81.53	87.49	93.50	30.15	13.23
3340.3	81.21	55.01	67.0	61.69	70.74	79.21	93.17	82.30	73.40	64.70	57.53	45.31
2088.6	80.07	65.07	67.4	61.55	70.83	79.49	80.70	82.00	74.41	67.15	60.90	44.79
2015.2	80.41	67.71	68.8	61.49	70.38	79.74	80.30	83.70	74.50	69.00	62.40	53.05
2033.4	80.00	66.77	68.15	61.43	70.40	79.40	80.00	83.00	74.00	68.00	61.00	52.00
2121.3	80.01	67.31	67.3	60.80	68.49	77.19	82.41	82.04	74.15	72.07	65.88	58.37
1950.1	80.00	60.71	60.1	60.40	68.49	77.37	82.54	81.75	74.45	73.40	65.45	58.74
1831.2	80.71	65.61	64.4	60.56	68.36	72.76	77.46	76.04	74.43	72.40	67.70	60.61
1737.1	80.70	60.01	63.1	58.22	63.74	71.33	80.19	76.77	74.44	72.74	67.10	60.00
1659.1	80.01	63.21	62.1	55.70	63.13	71.46	75.74	77.44	74.44	71.34	65.45	50.30
1590.6	80.00	60.00	60.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
1532.4	81.31	61.51	60.4	58.73	62.61	69.15	73.46	74.12	74.12	70.42	65.56	40.63
1523.1	81.01	60.11	70.2	55.40	61.01	68.30	72.41	74.43	72.44	60.41	61.70	50.42
1505.7	80.31	74.01	70.4	58.43	61.70	67.47	71.70	73.49	71.03	64.44	61.70	50.43
1488.6	80.70	74.21	77.5	60.97	64.49	68.41	70.40	72.40	70.40	67.40	62.40	50.40
1465.7	81.71	77.31	74.4	50.38	60.45	68.74	69.47	71.44	68.43	64.44	61.75	50.44
1443.4	80.00	70.00	70.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
1422.0	77.10	75.11	74.4	53.42	58.40	60.73	64.40	64.45	67.40	64.40	60.47	42.44
1396.5	70.42	70.01	74.0	59.41	54.35	62.27	67.40	68.40	67.54	60.27	57.45	40.44
1355.1	70.41	72.01	72.4	51.42	57.43	62.71	66.41	67.45	64.37	62.43	57.40	40.44

RUN NUMBER	287.00 (754.00)
AXIAL POSITION OF PRIMARY MNT. SECONDARY (INS.)	0.400
PRIMARY TEMPERATURE (IN)	1243.000
SECONDARY TEMPERATURE (IN)	553.000
PRIMARY PRESSURE WATIO	1.400
AREA RATIO	2.807
VELOCITY RATIO	0.878
PRIMARY VELOCITY (FT/SEC)	1376.000
MASS FLOW RATIO	2.478
PRIMARY MASS FLOW (SLU/SEC)	0.145
THINIST (LMS)	185841
ENVIRONMENTAL TEMPERATURE (IN)	553.000
ENVIRONMENTAL PRESSURE (IN.HG)	74.400
ENVIRONMENTAL HUMIDITY (PER CENT)	33.000
COMBUSTION PRODUCT FLOW TO DRY (G/HR)	0.000
INSTRUMENTATION NOISE FLOOR (DB)	63.554

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.31245E+00	133.6	THRUST	POWER LEVEL (DB)
500	9.50670E-03	109.8	10000	100.9
1000	0.40000E-02	118.1	20000	103.0
2000	3.30673E-01	125.2	40000	107.0
4000	7.10000E-01	128.5	80000	110.0
6000	7.10077E-01	128.5		
10000	2.00000E-01	124.2		
31500	1.23713E-01	120.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	2000	SOUND PRESSURE LEVEL	31500	OVERALL
15.0	80.0	87.3	104.1	109.0	109.0	109.0
30.0	80.2	87.3	104.1	109.0	109.0	109.0
45.0	80.5	87.3	104.1	109.0	109.0	109.0
60.0	80.4	87.3	104.1	109.0	109.0	109.0
75.0	80.5	87.3	104.1	109.0	109.0	109.0
90.0	80.5	87.3	104.1	109.0	109.0	109.0
105.0	80.5	87.3	104.1	109.0	109.0	109.0
120.0	80.5	87.3	104.1	109.0	109.0	109.0
135.0	80.5	87.3	104.1	109.0	109.0	109.0
150.0	80.5	87.3	104.1	109.0	109.0	109.0
165.0	80.5	87.3	104.1	109.0	109.0	109.0
180.0	80.5	87.3	104.1	109.0	109.0	109.0
195.0	80.5	87.3	104.1	109.0	109.0	109.0
210.0	80.5	87.3	104.1	109.0	109.0	109.0
225.0	80.5	87.3	104.1	109.0	109.0	109.0
240.0	80.5	87.3	104.1	109.0	109.0	109.0
255.0	80.5	87.3	104.1	109.0	109.0	109.0
270.0	80.5	87.3	104.1	109.0	109.0	109.0
285.0	80.5	87.3	104.1	109.0	109.0	109.0
300.0	80.5	87.3	104.1	109.0	109.0	109.0
315.0	80.5	87.3	104.1	109.0	109.0	109.0
330.0	80.5	87.3	104.1	109.0	109.0	109.0
345.0	80.5	87.3	104.1	109.0	109.0	109.0
360.0	80.5	87.3	104.1	109.0	109.0	109.0

MODEL THRUST =

10.000

FULL SCALE THRUST = 20000.000

LV	7000	8000	9000	10000	11000	12000	13000	14000	15000	16000	17000	18000	19000	20000
0700.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
0800.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
0900.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
1000.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
1100.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
1200.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
1300.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
1400.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
1500.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
1600.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
1700.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
1800.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
1900.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
2000.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
2100.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
2200.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
2300.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
2400.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
2500.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
2600.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
2700.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
2800.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
2900.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
3000.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
3100.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
3200.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
3300.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
3400.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
3500.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
3600.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
3700.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
3800.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
3900.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55
4000.0	80.01	83.01	83.5	85.30	73.10	77.44	78.44	77.27	68.55	58.04	43.40	18.54	-26.07	-100.55

NUM RUNS	100
AXIAL POSITION OF PRIMARY ORT. SECONDARY (INS.)	0.0000
PRIMARY TEMPERATURE (IN)	125.000
SECONDARY TEMPERATURE (IN)	125.000
PRIMARY PRESSURE (PSI)	1.000
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	1.000
MASS FLOW RATE	1.000
PRIMARY MASS FLOW (LB/SEC)	1.000
THRUST (LBS)	1.000
ENVIRONMENTAL TEMPERATURE (IN)	125.000
ENVIRONMENTAL PRESSURE (IN.HG)	1.000
ENVIRONMENTAL HUMIDITY (PER CENT)	1.000
EXTRAPOLATION FACTOR (FOR OVERALL)	1.000
INSTRUMENTATION NOISE FLOOR (DB)	1.000

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL 100

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL (DB)	THRUST
OVERALL	3.45500E+00	136.6		
500	1.40000E-02	112.3		
1000	1.00000E-01	120.0		
2000	3.38500E-01	127.3		
4000	1.00000E+00	130.0		
8000	1.20713E+00	131.8		
10000	1.00000E+01	140.0		
21000	2.40000E-01	123.9		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	OCTAVE 2000	OCTAVE 4000	OCTAVE 8000	OCTAVE 16000	OCTAVE 32000	OVERALL
10.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
20.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
30.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
40.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
50.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
60.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
70.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
80.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
90.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
100.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
110.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
120.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
130.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
140.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
150.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
160.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
170.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
180.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5

MODEL THRUST = 23.163 FULL SCALE THRUST = 24000.000

ANGLE (DEG)	500	OCTAVE 1000	OCTAVE 2000	OCTAVE 4000	OCTAVE 8000	OCTAVE 16000	OCTAVE 32000	OVERALL
10.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
20.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
30.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
40.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
50.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
60.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
70.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
80.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
90.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
100.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
110.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
120.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
130.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
140.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
150.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
160.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
170.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
180.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5

RUN NUMBER	298.000
AIRAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.800
PRIMARY TEMPERATURE (°F)	1241.000
SECONDARY TEMPERATURE (°F)	548.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	4.856
VELOCITY RATIO	1.086
PRIMARY VELOCITY (FT/SEC)	1373.792
MASS FLOW RATIO	7.826
PRIMARY MASS FLOW (LB/SEC)	.147
THRUST (LBS)	39.002
ENVIRONMENTAL TEMPERATURE (°F)	548.000
ENVIRONMENTAL PRESSURE (IN. HGT)	29.570
ENVIRONMENTAL HUMIDITY (PER CENT)	5.000
CALIBRATION FACTOR (MV TO 0.750 G)	1.936
INSTRUMENTATION NOISE FLOOR (DB)	60.584

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL (SCALED FOR THRUST)
OVERALL	2.64825E+00	134.2	THRUST 10000 POWER LEVEL (DB) 159.3
500	3.86823E-02	115.9	20000 161.3
1000	2.13890E-01	123.3	40000 164.3
2000	6.77189E-01	128.3	80000 167.3
4000	7.24983E-01	128.6	
8000	5.39637E-01	127.3	
16000	3.07694E-01	124.9	
31500	1.46793E-01	121.7	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	84.6	89.0	101.4	92.7	81.3	86.4	82.0	105.4
20.0	93.8	100.8	103.1	99.0	93.6	88.3	84.8	106.6
25.0	93.7	100.2	104.0	100.2	94.1	89.0	85.0	107.2
30.0	91.4	99.4	104.5	102.2	95.7	91.5	88.4	107.8
35.0	90.4	98.3	104.1	104.1	99.1	93.9	90.5	108.3
40.0	88.5	97.2	103.6	104.5	101.0	95.5	91.2	108.7
45.0	87.2	95.6	102.2	103.7	102.4	96.1	93.7	108.5
50.0	85.8	94.9	100.6	102.6	101.7	98.3	94.0	107.6
55.0	84.9	93.8	99.4	101.0	101.2	96.6	94.6	106.8
60.0	84.7	92.8	98.2	99.3	99.7	97.8	94.2	105.5
65.0	84.5	92.1	97.5	98.6	100.0	97.3	94.2	104.9
70.0	84.3	91.0	96.2	97.6	97.9	96.4	93.5	103.8
75.0	83.3	90.0	95.0	96.9	97.1	95.8	93.0	103.2
80.0	83.1	90.0	95.1	96.3	96.6	95.3	92.5	102.7
85.0	81.9	89.0	94.1	95.2	95.7	94.7	91.9	101.8
90.0	82.6	88.9	94.0	95.3	95.4	94.2	91.3	101.5
95.0	81.3	88.7	93.2	94.4	94.9	93.9	91.7	101.0
100.0	80.6	87.6	92.3	93.7	94.5	93.6	91.4	100.5
105.0	80.1	86.5	91.7	93.2	93.9	93.1	90.9	99.9
110.0	78.6	85.7	91.2	92.7	93.4	92.4	90.3	99.4
115.0	73.4	84.2	90.4	92.5	93.0	92.2	89.6	99.0

MODEL THRUST = 39.002 FULL SCALE THRUST = 20000.000

LN	PNDH	OASPL	OCTAVE		BAND	SOUND			PRESSURE		LEVELS		
			22.1	44.2	88.3	176.6	353.3	706.6	1391.0	2782.1	5520.0	11039.9	22079.9
5795.6	74.7 (74.4)	77.5	67.02	72.27	73.58	69.51	62.31	53.96	43.01	24.18	-9.79	-69.00	-163.39
4385.7	79.6 (79.1)	81.2	68.57	75.56	77.75	73.41	67.07	59.43	50.34	35.56	9.13	-36.41	-108.58
3549.3	83.0 (82.3)	83.0	70.31	76.84	80.58	76.49	69.71	63.07	55.36	42.66	20.70	-16.73	-75.69
3000.0	86.4 (85.5)	85.7	69.56	77.82	82.56	79.97	72.88	67.15	60.32	49.13	30.10	-2.00	-52.31
2615.2	89.6 (88.5)	87.5	69.75	77.60	83.37	83.15	77.63	71.03	64.40	54.26	37.29	8.92	-35.32
2393.7	91.3 (90.1)	89.0	69.42	77.77	83.91	84.52	80.15	73.66	66.64	57.27	41.00	18.17	-23.83
2121.3	93.2 (91.8)	89.1	68.34	76.74	83.23	84.65	82.89	77.42	70.45	61.65	47.32	23.74	-12.71
1958.1	93.5 (91.9)	88.9	67.57	76.68	82.57	84.16	82.45	76.46	71.79	63.44	49.48	27.99	-5.89
1831.2	93.9 (92.0)	88.6	67.32	76.23	81.72	83.21	83.01	79.64	73.48	65.47	52.69	31.93	.05
1732.1	93.9 (91.3)	87.8	67.63	75.49	81.65	81.99	82.04	79.22	73.46	65.75	53.49	33.64	3.38
1655.1	93.3 (91.1)	87.6	67.75	75.34	80.74	81.69	81.83	79.25	74.03	66.51	54.67	35.62	6.52
1596.3	92.7 (90.9)	86.9	67.48	74.62	79.89	80.79	81.00	78.71	73.04	65.46	54.45	36.46	1.29
1552.9	92.3 (90.0)	86.5	67.11	74.62	79.72	80.54	80.45	78.33	73.66	66.42	55.12	37.06	9.57
1523.1	91.9 (89.6)	86.1	67.07	73.95	79.06	80.17	80.15	78.01	73.35	66.19	55.05	37.28	10.26
1505.7	91.3 (89.9)	85.3	66.01	73.06	78.17	79.18	79.38	77.59	72.91	65.80	54.76	37.15	10.41
1500.0	90.9 (88.6)	85.1	66.76	72.48	77.06	78.30	79.06	77.09	72.35	65.25	54.73	36.88	10.83
1505.7	90.5 (88.1)	84.5	65.36	72.20	77.21	78.32	78.51	76.75	72.71	65.60	54.56	36.95	10.21
1523.1	90.0 (87.5)	83.9	64.57	71.77	76.72	77.59	78.05	76.32	72.24	65.07	53.94	36.16	9.15
1552.9	89.2 (86.7)	83.1	63.96	70.31	75.50	76.48	77.22	74.65	71.50	64.26	52.96	34.90	7.41
1596.1	88.3 (85.9)	82.3	62.22	69.20	74.76	76.13	76.52	74.68	70.68	63.28	51.75	33.26	5.09
1655.1	87.5 (85.1)	81.5	61.73	67.46	73.66	75.65	75.81	74.15	69.71	62.19	50.35	31.30	2.20

MIN NUMBER	= 291.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 1242.000
SECONDARY TEMPERATURE (R)	= 547.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.856
VELOCITY RATIO	= .762
PRIMARY VELOCITY (FT/SEC)	= 1374.366
PASS FLOW RATIO	= 8.422
PRIMARY MASS FLOW (LB/SEC)	= .148
THRUST (LBS)	= 48.908
ENVIRONMENTAL TEMPERATURE (R)	= 544.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.570
ENVIRONMENTAL HUMIDITY (PER CENT)	= 9.000
EXHAUSTION FACTOR (IN. TO 0.75 IN. C/D)	= .048
INSTRUMENTATION NOISE FLOOR (DB)	= 63.150

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.05135E+00	137.0	THRUST	POWER LEVEL (DB)
500	7.23263E-02	118.6	10000	160.1
1000	3.99127E-01	126.0	20000	163.2
2000	1.30232E+00	131.1	40000	166.2
4000	1.33017E+00	131.3	80000	169.2
8000	1.01818E+00	130.1		
16000	6.15115E-01	127.9		
31500	3.10112E-01	124.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
16.0	97.9	102.7	104.4	101.9	95.8	90.7	80.6	100.5
20.0	95.2	103.3	105.1	101.9	96.8	92.5	89.1	109.0
25.0	90.2	102.6	105.6	103.3	98.1	93.6	89.9	110.0
30.0	95.0	102.4	106.9	104.3	99.3	95.4	91.9	110.4
35.0	93.1	100.9	106.5	106.0	101.6	97.3	93.3	110.9
40.0	91.8	99.9	106.1	106.5	103.7	99.0	94.7	111.2
45.0	90.2	98.3	104.8	105.4	104.4	100.4	96.2	110.8
50.0	88.5	97.4	103.8	105.0	104.1	100.6	96.3	110.1
55.0	87.5	96.2	102.7	103.6	103.1	100.7	97.5	109.2
60.0	86.9	95.7	101.7	102.5	102.3	100.4	97.2	108.5
65.0	87.3	94.9	100.4	101.2	101.5	100.0	97.2	107.6
70.0	86.5	94.1	99.6	101.0	101.1	99.5	96.4	107.1
75.0	86.1	94.1	99.3	100.4	100.3	98.4	95.3	106.5
80.0	85.7	93.0	98.1	99.6	99.8	98.3	95.7	105.8
85.0	84.4	91.8	97.2	98.7	98.7	97.7	95.3	104.9
90.0	84.0	91.1	96.7	98.3	98.6	97.5	95.1	104.7
95.0	84.0	90.3	96.8	97.7	98.3	97.6	95.5	104.4
100.0	83.3	90.0	95.7	97.3	97.9	97.1	94.8	103.9
105.0	82.1	89.2	95.0	96.5	97.3	97.0	94.3	103.4
110.0	81.5	88.5	94.6	96.3	97.2	96.7	94.5	103.2
115.0	81.0	87.4	94.1	96.1	96.7	96.5	94.6	102.9

MODEL THRUST = 48.908 FULL SCALE THRUST = 20000.000

LT	PHOB	GASPL	OCTAVE BAND	SOUND PRESSURE LEVELS	OVER ALL								
			24.7	49.5	98.9	197.8	395.6	791.2	1557.7	3115.4	6181.4	12362.8	24725.5
5795.6	78.31 (78.1)	79.5	69.31	74.04	75.63	72.01	64.57	56.51	44.17	23.34	-13.98	-78.27	-179.21
4386.7	82.41 (82.0)	82.5	69.04	77.10	78.73	75.17	69.07	62.07	52.48	39.49	7.03	-42.36	-119.47
3849.3	86.01 (85.4)	85.4	71.83	78.48	82.17	78.50	72.47	65.77	57.13	43.21	19.20	-21.34	-84.32
3000.0	88.81 (88.1)	87.2	72.12	79.46	83.68	81.11	75.37	69.59	61.88	49.68	28.89	-5.84	-59.53
2615.2	91.61 (90.7)	88.9	71.37	79.18	85.03	84.08	79.02	73.12	65.38	54.34	35.85	5.20	-42.00
2333.6	93.51 (92.5)	90.1	71.07	79.23	85.43	85.58	82.79	77.01	69.44	58.28	41.44	13.78	-20.67
2121.3	94.81 (93.6)	90.4	70.32	78.40	84.91	85.69	83.78	78.48	71.30	61.77	46.21	20.78	-18.07
1958.1	95.41 (94.0)	90.7	69.31	78.26	84.01	85.02	84.19	79.32	72.49	63.47	48.87	25.16	-10.42
1831.2	95.61 (93.9)	90.0	68.90	77.57	84.03	84.78	83.83	80.37	74.52	65.89	52.05	29.68	-4.20
1732.1	95.81 (93.7)	89.7	68.64	77.56	83.92	84.21	83.03	80.64	74.96	66.63	53.37	32.05	-2.21
1655.1	95.41 (93.4)	89.2	69.60	77.16	82.60	83.32	83.23	80.65	75.88	67.49	54.69	34.19	3.23
1596.3	95.21 (93.3)	89.0	69.07	76.73	82.20	83.37	83.12	80.51	75.23	67.32	58.87	34.99	5.01
1552.9	94.01 (92.9)	88.8	68.91	76.97	82.13	83.08	82.55	80.21	75.47	67.69	55.50	34.07	4.03
1523.1	94.51 (92.5)	88.1	68.76	75.99	81.04	82.41	82.23	79.62	75.10	67.42	55.40	36.29	7.55
1505.7	93.91 (91.7)	87.4	67.96	74.93	80.30	81.67	81.31	79.31	74.83	67.20	55.29	36.36	7.42
1500.0	93.71 (91.5)	87.1	67.99	74.19	79.85	81.32	81.25	79.19	74.64	67.02	55.14	36.28	7.47
1505.7	93.51 (91.2)	86.8	67.08	73.65	79.45	80.67	80.88	79.27	74.07	67.44	55.52	36.60	8.15
1523.1	92.01 (90.6)	86.2	66.38	73.71	78.04	80.13	80.51	78.59	74.70	66.31	54.50	35.39	6.65
1552.9	92.11 (90.8)	85.4	64.91	72.05	77.84	79.13	79.58	78.31	73.64	65.86	53.67	34.24	5.00
1596.3	91.61 (89.4)	84.9	64.18	71.09	77.11	78.70	79.29	77.74	73.29	65.38	52.93	33.05	3.68
1655.1	90.91 (88.7)	84.2	63.31	69.72	76.32	78.44	78.64	77.15	72.97	64.88	52.88	31.54	2.61

NUM NUMBER	303.00 (753.00)
AIRIAL POSITION OF PRIMARY WMT. SECONDARY (INCH)	9.810
PRIMARY TEMPERATURE (IN)	1312.000
SECONDARY TEMPERATURE (IN)	570.000
PRIMARY PRESSURE RATIO	3.590
AREA RATIO	1.030
VELOCITY RATIO	1.347
PRIMARY VELOCITY (FT/SEC)	2182.034
MASS FLOW RATIO	1.027
PRIMARY MASS FLOW (LB/SEC)	1.275
THRUST (LBS)	23.119
ENVIRONMENTAL TEMPERATURE (IN)	554.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.750
ENVIRONMENTAL HUMIDITY (PER CENT)	22.000
COMBUSTION FACTOR (WY TO OY/IN CH)	1.178
INSTRUMENTATION NOISE FLOOR (DB)	74.548

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.00074E+01	146.0	THRUST	POWER LEVEL (DB)
500	6.10995E+02	117.9	10000	172.4
1000	5.05099E+01	127.0	20000	175.4
2000	2.98428E+00	134.7	40000	178.4
4000	6.51003E+00	139.3	80000	181.4
8000	1.45992E+01	141.6		
16000	9.51088E+00	139.8		
31500	3.82833E+00	135.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (°)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 16000	31500	OVER ALL
15.0	98.7	104.0	111.0	113.0	111.5	105.0	97.1	117.7
20.0	97.6	106.7	112.7	114.0	113.7	108.7	102.6	119.1
25.0	96.3	106.1	113.2	115.3	116.1	112.4	106.6	120.6
30.0	94.7	104.8	113.0	116.4	117.6	115.1	109.9	122.2
35.0	92.5	102.7	112.2	117.3	118.7	116.8	112.3	123.2
40.0	90.8	100.6	110.1	116.7	119.0	117.0	112.3	123.1
45.0	88.3	98.0	107.0	114.4	114.3	116.0	111.2	122.0
50.0	86.2	95.5	104.5	112.1	116.3	114.7	110.4	120.1
55.0	84.6	93.0	101.3	109.3	112.7	111.0	108.5	117.0
60.0	83.1	91.5	98.6	105.0	109.4	109.5	106.9	114.3
65.0	82.5	90.1	97.3	103.0	107.0	107.4	105.5	112.3
70.0	82.5	89.3	96.1	101.0	104.5	105.9	104.1	110.8
75.0	81.7	88.5	95.0	100.1	103.5	103.9	103.2	109.1
80.0	81.9	88.1	94.5	99.3	102.3	103.1	102.0	108.1
85.0	81.3	87.5	94.1	98.3	101.5	102.2	101.0	107.3
90.0	80.6	86.7	93.2	97.4	101.1	101.5	100.3	106.6
95.0	80.6	86.4	92.5	96.8	100.5	100.8	99.5	105.9
100.0	79.0	85.5	91.9	96.1	99.8	99.9	98.9	105.2
105.0	79.0	85.1	91.4	95.4	99.4	99.3	98.2	104.5
110.0	78.1	84.6	90.1	94.7	97.9	98.7	97.7	103.7
115.0	79.0	84.0	89.0	94.5	97.9	98.3	97.1	103.5

MODEL THRUST = 23.119 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS												
			17.0	34.0	68.0	136.0	272.0	544.0	1071.0	2142.0	4284.0	8499.9	16999.7						
3795.6	92.9 (92.4)	91.7	73.32	81.42	96.45	87.19	84.99	77.10	65.23	50.32	23.15	-25.42	-105.45						
4365.7	98.0 (97.2)	95.6	74.08	83.81	89.66	90.83	89.84	83.27	73.25	61.23	39.94	2.46	-58.83						
3849.3	102.6 (101.5)	99.1	75.20	84.99	92.02	93.96	94.32	87.32	80.27	69.97	52.17	21.27	-28.91						
3800.0	106.2 (104.8)	101.9	75.10	85.13	93.39	96.61	97.39	93.74	85.40	76.73	61.22	34.63	-8.24						
2615.2	108.6 (106.9)	104.0	74.03	84.30	93.77	98.45	99.74	96.85	90.01	81.63	67.72	44.16	6.40						
2883.6	110.1 (108.7)	104.9	73.48	83.21	92.01	97.10	101.07	99.22	91.41	83.01	70.88	49.93	10.92						
2121.7	110.2 (107.9)	104.7	71.45	81.38	90.99	98.11	101.27	98.19	91.82	84.46	72.61	52.93	21.74						
1958.1	109.3 (106.7)	103.5	70.34	79.58	88.44	96.06	100.06	97.65	91.06	84.03	73.46	55.07	26.04						
1831.2	107.0 (104.2)	100.9	69.26	77.62	85.00	92.83	97.03	95.55	90.51	83.74	73.10	55.71	28.37						
1722.1	105.3 (102.1)	98.7	68.25	76.70	83.70	90.00	94.25	93.67	89.43	82.47	72.75	54.13	30.11						
1656.1	103.9 (100.6)	97.1	68.08	75.44	82.41	88.44	92.75	92.05	88.64	82.24	72.34	56.32	31.33						
1606.3	102.4 (99.5)	96.0	68.00	75.20	81.91	87.71	92.00	91.82	88.77	81.36	71.88	54.13	31.92						
1557.4	101.6 (98.0)	94.6	68.04	74.55	81.17	86.10	90.20	89.16	86.98	80.79	71.31	55.10	32.46						
1523.1	100.4 (97.2)	93.8	64.21	74.40	80.74	85.46	89.27	89.47	86.03	79.40	70.55	55.58	32.33						
1506.7	100.1 (96.5)	93.0	67.66	73.84	80.48	84.46	87.59	87.69	85.18	79.08	69.80	54.46	31.95						
1500.0	99.4 (95.8)	92.4	67.08	73.16	79.56	83.46	87.20	87.62	84.49	78.41	69.13	54.36	31.62						
1505.7	98.7 (95.1)	91.7	66.97	72.73	78.40	83.34	86.54	86.31	83.66	77.56	68.29	53.45	30.44						
1483.4	97.3 (94.1)	90.9	67.20	71.40	77.12	81.12	84.75	84.75	81.42	76.09	67.33	52.36	29.11						
1512.9	96.9 (93.3)	89.9	65.11	71.10	77.47	81.43	84.65	84.49	81.49	75.79	66.32	51.11	27.67						
1504.7	95.9 (92.3)	88.9	63.46	70.47	75.89	80.42	83.46	83.61	81.19	74.99	65.25	49.70	25.48						
1505.1	95.1 (91.6)	88.3	64.56	70.15	75.28	79.96	83.13	82.87	80.26	73.86	63.95	47.94	22.94						

PUN NUMBER	= 304.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.400
PRIMARY TEMPERATURE (°K)	= 1315.000
SECONDARY TEMPERATURE (°K)	= 562.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .486
PRIMARY VELOCITY (FT/SEC)	= 2104.529
MASS FLOW RATIO	= .965
PRIMARY MASS FLOW (LB/SEC)	= .273
THRUST (LBS)	= 27.239
ENVIRONMENTAL TEMPERATURE (°R)	= 552.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	= 25.000
CALIBRATION FACTOR (MV TO DY/SG CM)	= .199
INSTRUMENTATION NOISE FLOOR (DB)	= 75.578

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.86965E+01	145.9	THRUST	POWER LEVEL (DB)
500	8.09432E-02	119.1	10000	171.5
1000	6.15425E-01	128.0	20000	174.5
2000	3.38879E+00	135.3	40000	177.5
4000	6.72855E+00	137.4	80000	180.6
8000	1.36445E+01	141.3		
16000	6.71136E+00	137.4		
31500	3.50742E+00	135.5		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	99.7	107.7	112.3	112.0	110.5	107.7	98.7	117.9
20.0	98.6	107.8	113.4	114.3	112.8	107.2	100.9	119.1
25.0	97.8	107.0	113.7	115.4	114.9	110.0	103.7	120.3
30.0	96.3	105.7	113.6	116.0	115.5	110.7	103.4	120.7
35.0	94.2	104.1	112.6	117.4	119.0	110.8	111.4	123.4
40.0	92.0	101.5	110.7	116.8	116.7	116.5	111.9	122.9
45.0	89.2	98.9	108.4	115.2	115.9	110.2	111.7	122.2
50.0	87.6	96.2	105.2	112.1	116.2	114.5	110.3	120.0
55.0	85.1	94.1	102.1	108.5	112.0	112.2	108.7	117.1
60.0	84.1	91.6	99.5	105.1	109.3	109.8	107.2	114.4
65.0	84.7	91.4	97.8	103.0	107.3	107.5	105.1	112.5
70.0	83.5	90.3	96.8	101.8	105.2	105.8	104.4	110.9
75.0	82.4	89.7	95.0	100.2	103.7	104.4	103.3	109.4
80.0	82.9	89.1	94.9	99.5	102.3	103.3	102.2	108.4
85.0	80.6	87.3	93.3	97.4	100.7	102.5	101.1	107.0
90.0	80.8	86.5	92.6	96.6	100.3	101.4	100.2	106.3
95.0	80.0	85.0	91.9	96.0	100.3	101.0	99.5	105.8
100.0	79.1	85.0	91.0	94.8	99.3	100.1	98.8	104.9
105.0	79.1	84.0	90.4	94.4	98.0	99.4	98.1	104.3
110.0	78.1	84.0	89.5	93.9	98.0	98.4	97.6	103.7
115.0	79.1	83.4	88.7	93.5	97.4	98.4	97.0	103.2

MODEL THRUST = 27.239 FULL SCALE THRUST = 20000.000

LT	PNDW	OASPL	OCTAVE		BAND		SOUND		PRESSURE		LEVELS		
			18.5	36.9	73.8	147.6	295.2	590.5	1182.5	2325.0	4613.1	9226.1	18452.2
5795.6	91.71 (91.3)	90.9	73.68	81.66	86.08	86.10	83.09	74.94	63.13	47.08	17.92	-33.82	-114.22
4389.7	96.41 (96.2)	94.9	74.44	84.20	89.65	89.73	86.73	80.79	70.10	57.22	34.43	-9.00	-76.00
3549.3	100.91 (100.0)	97.9	76.05	85.18	91.87	93.35	92.31	85.93	76.09	65.18	46.08	13.23	-39.62
2898.4	103.11 (102.0)	99.0	75.93	89.01	93.70	94.49	94.50	88.45	78.70	67.40	51.86	23.93	-21.90
2415.2	108.31 (108.7)	103.4	75.02	84.99	93.39	96.12	94.25	96.00	88.02	79.13	64.33	39.33	-4.00
2033.6	109.31 (109.3)	103.0	73.49	83.93	92.50	96.45	100.04	90.70	80.93	61.07	48.74	33.31	9.74
1821.3	104.41 (107.6)	104.1	71.43	81.55	91.63	97.76	100.62	97.50	90.88	83.10	70.92	49.88	14.89
1558.1	100.91 (106.2)	102.6	70.98	74.44	84.99	95.56	99.08	90.80	82.03	71.19	61.77	51.77	21.22
1331.2	106.41 (103.0)	100.3	69.67	78.04	86.01	92.29	96.30	94.94	89.71	82.59	71.32	62.92	24.20
1132.1	104.41 (101.8)	94.0	68.55	76.08	83.88	89.80	93.38	93.18	88.78	81.89	71.87	63.90	24.17
1005.1	103.31 (100.3)	96.5	68.92	76.21	82.46	87.73	91.76	91.38	88.22	81.49	71.02	64.10	27.84
890.3	102.31 (97.0)	94.2	65.84	73.87	81.24	86.68	90.02	89.42	87.30	80.71	70.40	60.08	28.88
795.4	101.21 (97.8)	94.0	66.32	73.13	81.14	86.46	89.77	88.70	86.14	79.65	69.64	63.58	24.77
723.1	100.41 (96.4)	93.2	66.44	74.68	80.47	84.76	87.56	87.02	85.30	78.87	69.00	63.19	24.79
660.4	94.11 (93.4)	91.9	66.44	73.00	78.45	82.46	86.41	87.15	84.35	77.46	68.16	62.40	24.35
608.4	94.41 (95.0)	91.2	66.52	72.71	78.28	82.14	84.63	83.32	83.45	77.37	67.30	61.69	27.62
565.7	97.11 (94.4)	90.7	66.44	71.24	77.50	81.51	85.59	84.66	82.66	76.27	66.48	60.81	24.87
523.1	96.41 (93.0)	89.9	66.04	71.19	76.87	80.72	84.68	86.73	84.79	75.48	65.49	60.78	25.34
482.4	96.11 (92.4)	89.9	66.64	69.61	75.40	79.72	83.69	83.74	80.48	74.48	64.67	60.61	23.60
442.3	95.11 (91.7)	88.6	63.22	69.17	74.58	79.49	82.70	82.47	80.11	73.52	63.31	60.88	21.47
403.1	94.11 (90.4)	87.1	63.92	68.24	73.54	78.18	81.68	82.19	79.10	72.37	61.98	60.48	19.74

RUN NUMBER	311.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-4.500
PRIMARY TEMPERATURE (K)	527.000
SECONDARY TEMPERATURE (K)	525.000
PRIMARY PRESSURE RATIO	1.519
AREA RATIO	1.000
VELOCITY RATIO	.360
PRIMARY VELOCITY (FT/SEC)	846.253
MASS FLOW RATIO	.712
PRIMARY MASS FLOW (LB/SEC)	.210
THRUST (LBS)	8.300
ENVIRONMENTAL TEMPERATURE (K)	514.000
ENVIRONMENTAL PRESSURE (IN.MER)	29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (WTS TO DY/50 CM)	.0005
INSTRUMENTATION NOISE FLOOR (DB)	44.543

AUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	8.87359E-02	119.5	THRUST	POWER LEVEL (DB)
500	1.20467E-03	100.6	10000	150.2
1000	5.17094E-03	107.1	20000	153.2
2000	2.73187E-02	114.4	40000	156.2
4000	3.09771E-02	114.9	80000	159.2
8000	1.60029E-02	112.0		
10000	5.70938E-03	107.6		
31500	2.35221E-03	103.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	10000	31500	OVERALL
15.0	78.7	84.4	87.8	86.6	81.3	73.0	69.3	92.4
20.0	77.4	83.7	87.7	87.3	82.3	75.4	71.2	92.1
25.0	77.4	83.7	87.7	87.9	83.3	76.7	72.3	92.4
30.0	76.2	81.6	87.7	87.9	84.0	78.1	74.0	92.4
35.0	74.9	80.4	87.0	88.1	84.5	78.9	74.4	92.3
40.0	74.3	79.8	86.7	87.6	84.4	79.1	74.8	91.9
45.0	73.1	78.4	85.9	86.9	84.2	79.3	75.1	91.3
50.0	72.1	77.8	85.9	86.6	84.1	79.4	75.1	91.1
55.0	70.9	77.2	85.7	86.5	83.8	79.5	75.3	90.9
60.0	70.5	76.7	85.6	86.3	83.8	79.6	75.5	90.8
65.0	69.7	76.4	85.2	86.2	83.7	79.3	75.1	90.6
70.0	69.1	76.2	84.6	85.6	82.9	79.2	75.3	90.1
75.0	68.2	76.4	83.8	85.2	82.5	79.7	75.2	89.3
80.0	68.0	76.0	83.4	84.6	82.1	79.1	74.7	89.1
85.0	67.1	75.1	83.0	83.0	81.6	78.4	74.4	88.0
90.0	66.7	75.1	83.4	82.8	81.3	78.9	73.9	88.1
95.0	66.1	74.9	83.5	82.8	81.1	79.8	73.1	88.0
100.0	65.1	73.7	82.9	82.4	80.2	79.0	72.7	87.6
105.0	64.0	72.0	82.5	82.4	79.9	78.8	72.5	87.4
110.0	63.9	71.0	80.8	81.6	79.0	78.1	71.7	86.2
115.0	63.0	69.9	78.6	80.9	77.6	75.2	71.0	84.7

MODEL THRUST = 8.500 FULL SCALE THRUST = 20000.000

L	PHASE	ANGLE	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	10.3	20.6	41.2	82.5	164.9	329.8	649.4	1298.8	2597.6	5195.2	10390.4
5785.4	64.51	63.51	70.8	57.69	63.05	68.87	65.94	50.67	51.34	44.04	34.38	10.40	-15.39	-71.67				
4385.7	64.91	67.41	73.4	60.80	65.69	69.07	66.44	49.37	49.81	40.30	27.30	2.22	-41.09					
3549.3	72.31	70.61	75.6	66.70	66.32	70.93	71.14	61.30	59.03	52.90	45.42	33.46	13.02	-22.41				
3089.0	74.91	72.91	77.9	69.97	69.30	72.84	72.47	60.44	61.99	50.49	40.94	30.44	10.02	-9.20				
2815.2	76.81	74.81	78.1	69.82	69.32	72.88	74.08	70.23	69.67	58.36	52.30	42.82	28.61	-4.43				
2533.4	78.11	76.11	79.7	69.10	68.57	72.55	72.68	67.09	66.09	54.94	48.94	39.43	30.86	0.19				
2121.3	78.91	76.31	79.0	68.84	68.13	73.67	74.61	71.72	68.55	61.30	55.86	47.56	33.84	11.34				
1958.1	79.71	77.01	79.5	68.51	68.20	74.30	74.99	72.35	67.89	62.11	56.88	49.07	38.07	15.07				
1831.2	80.41	77.41	79.4	68.92	68.23	74.67	75.45	72.69	68.82	62.43	57.82	50.25	38.00	14.16				
1732.1	81.11	77.91	80.3	68.85	68.79	75.12	75.78	73.10	69.94	63.70	59.78	51.38	39.62	20.76				
1655.1	81.71	78.21	80.4	69.61	68.21	75.13	76.72	73.61	69.76	63.80	59.89	51.76	40.39	22.10				
1576.2	81.21	78.01	80.52	69.35	68.84	76.08	76.91	74.33	69.97	64.37	59.53	52.56	41.89	23.80				
1557.9	81.11	77.71	79.9	69.64	68.94	76.20	75.40	72.78	68.46	64.40	59.71	52.43	41.94	26.71				
1523.1	80.41	77.51	79.6	69.57	68.55	73.08	75.10	72.60	68.32	64.11	59.42	52.62	41.42	24.97				
1505.7	80.41	77.01	79.3	69.57	68.74	76.35	74.23	72.13	67.71	64.04	59.33	52.66	41.45	25.11				
1480.0	80.91	76.61	79.4	69.45	68.49	76.10	73.97	71.90	67.27	63.53	58.81	52.68	41.48	24.40				
1455.7	79.61	76.21	79.7	69.63	68.47	76.26	73.11	71.71	66.89	62.72	57.49	51.23	40.62	23.77				
1433.1	78.41	75.41	79.2	69.61	68.61	73.62	73.64	71.66	67.20	62.74	58.68	50.68	39.95	22.95				
1397.4	78.71	74.91	77.8	69.40	63.04	72.64	73.26	70.25	65.40	61.46	56.77	49.90	39.05	21.77				
1366.3	77.31	74.01	76.3	64.14	61.19	71.81	71.78	68.23	63.48	60.77	55.98	49.45	37.88	20.21				
1355.1	75.91	72.51	74.6	63.35	60.62	68.45	70.37	67.10	64.44	61.09	55.14	48.06	36.64	18.44				

RUN NUMBER	312,800
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	4.500
PRIMARY TEMPERATURE (°R)	2700.000
SECONDARY TEMPERATURE (°R)	523.000
PRIMARY PRESSURE (PSI)	1.20
AREA RATIO	1.000
VELOCITY RATIO	.94
PRIMARY VELOCITY (FT/SEC)	464
MASS FLOW RATIO	1.001
PRIMARY MASS FLOW (LB/SEC)	.158
THRUST (LBS)	12.500
ENVIRONMENTAL TEMPERATURE (°R)	515.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (IN. TO 0.750 CM)	1.000
INSTRUMENTATION NOISE FLOOR (DB)	45.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	7.73515E-02	118.9	THRUST POWER LEVEL (DB)
500	1.46769E-03	101.7	10000 107.9
1000	6.31708E-03	100.0	20000 150.9
2000	1.76339E-02	112.5	40000 153.9
4000	2.11938E-02	113.3	80000 156.9
8000	1.76228E-02	112.5	
16000	9.00000E-03	109.0	
31500	4.07453E-03	106.1	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	4000	8000	16000	31500	OVERALL
15.0	79.9	85.0	88.0	89.1	89.0	89.0	79.9	79.9	92.0
20.0	79.8	85.6	88.2	89.4	89.4	89.4	79.7	79.7	92.6
25.0	79.3	84.7	87.3	87.8	87.8	87.8	79.1	79.1	92.4
30.0	79.1	83.2	87.0	87.2	87.2	87.2	79.2	79.0	92.3
35.0	79.0	82.0	86.3	87.1	87.1	87.1	79.0	79.0	92.1
40.0	74.1	80.8	85.9	87.0	87.0	87.0	77.7	77.7	92.1
45.0	73.3	79.0	84.2	86.9	86.9	86.9	76.3	76.3	91.7
50.0	71.7	79.0	84.1	85.5	85.5	85.5	76.1	76.1	90.9
55.0	71.0	78.1	83.0	85.1	85.1	85.1	76.0	76.0	90.8
60.0	70.7	76.9	82.4	85.0	85.0	85.0	75.8	75.8	89.6
65.0	70.2	76.0	82.4	85.0	85.0	85.0	75.4	75.4	89.0
70.0	70.0	76.8	81.5	85.0	85.0	85.0	75.7	75.5	89.0
75.0	69.9	75.5	80.0	85.1	85.1	85.1	75.1	75.0	88.9
80.0	69.4	75.0	80.0	81.6	81.6	81.6	75.7	76.7	87.6
85.0	69.0	75.0	80.0	81.3	81.3	81.3	75.2	75.0	87.6
90.0	67.6	74.8	79.6	80.8	80.8	80.8	74.7	75.0	86.7
95.0	67.0	73.0	79.0	80.1	80.1	80.1	74.6	73.9	86.2
100.0	67.0	73.0	78.8	79.9	79.9	79.9	74.6	73.2	86.0
105.0	66.5	72.0	78.7	79.9	79.9	79.9	74.6	73.0	85.9
110.0	66.3	72.1	77.4	79.6	79.6	79.6	74.7	73.7	85.8
115.0	66.0	70.0	76.1	79.0	79.0	79.0	74.6	74.6	84.0

MODEL THRUST = 12.500 FULL SCALE THRUST = 20000.000

ANGLE (DEG)	500	OCTAVE BAND	1000	2000	4000	8000	16000	31500	OVERALL
15.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
20.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
25.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
30.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
35.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
40.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
45.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
50.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
55.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
60.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
65.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
70.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
75.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
80.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
85.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
90.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
95.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
100.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
105.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
110.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88
115.0	83.71	82.81	84.2	87.25	83.24	83.23	82.24	87.43	89.88

RUN NUMBER	310.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	74.500
PRIMARY TEMPERATURE (°F)	120.700
SECONDARY TEMPERATURE (°F)	530.000
PRIMARY PRESSURE RATIO	1.286
AREA RATIO	2.007
VELOCITY RATIO	0.942
PRIMARY VELOCITY (FT/SEC)	663.000
MASS FLOW RATIO	2.150
PRIMARY MASS FLOW (LBS/SEC)	0.103
THRUST (LBS)	14.000
ENVIRONMENTAL TEMPERATURE (°F)	517.500
ENVIRONMENTAL PRESSURE (IN. Hg)	29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	64.500
CALIBRATION FACTOR (WTS TO DYSP. CM)	0.013
INSTRUMENTATION NOISE FLOOR (DB)	51.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	1.56420E-01	121.9	10000	150.5
500	2.50916E-03	104.1	20000	153.5
1000	1.22990E-02	110.0	40000	156.5
2000	3.40181E-02	115.3	80000	159.5
4000	3.99772E-02	116.0		
8000	3.77192E-02	115.4		
16000	2.00779E-02	113.1		
31500	9.25875E-03	109.7		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE 10000	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 10000	31500	OVER ALL
00.0	84.5	81.1	82.6	80.1	80.0	80.1	80.0	81.3
05.0	82.2	80.2	82.3	80.3	80.0	82.2	79.2	80.6
10.0	80.3	80.0	81.0	80.0	80.1	80.1	80.0	80.6
15.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
20.0	77.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25.0	75.0	82.7	80.0	80.0	80.0	80.0	80.0	80.0
30.0	75.0	81.0	80.0	80.0	80.0	80.0	80.0	80.0
35.0	73.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0
40.0	72.0	79.0	80.0	80.0	80.0	80.0	80.0	80.0
45.0	70.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0
50.0	68.0	77.0	80.0	80.0	80.0	80.0	80.0	80.0
55.0	66.0	76.0	80.0	80.0	80.0	80.0	80.0	80.0
60.0	64.0	75.0	80.0	80.0	80.0	80.0	80.0	80.0
65.0	62.0	74.0	80.0	80.0	80.0	80.0	80.0	80.0
70.0	60.0	73.0	80.0	80.0	80.0	80.0	80.0	80.0
75.0	58.0	72.0	80.0	80.0	80.0	80.0	80.0	80.0
80.0	56.0	71.0	80.0	80.0	80.0	80.0	80.0	80.0
85.0	54.0	70.0	80.0	80.0	80.0	80.0	80.0	80.0
90.0	52.0	69.0	80.0	80.0	80.0	80.0	80.0	80.0
95.0	50.0	68.0	80.0	80.0	80.0	80.0	80.0	80.0
100.0	48.0	67.0	80.0	80.0	80.0	80.0	80.0	80.0
105.0	46.0	66.0	80.0	80.0	80.0	80.0	80.0	80.0
110.0	44.0	65.0	80.0	80.0	80.0	80.0	80.0	80.0
115.0	42.0	64.0	80.0	80.0	80.0	80.0	80.0	80.0

MODEL THRUST = 10.000 FULL SCALE THRUST = 20000.000

LV	PHASE	ANGLE	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
		12.0	20.0	31.5	63.0	125.0	251.2	501.2
0795.4	70.01	69.01	74.1	61.32	67.00	70.34	66.85	67.86
0800.0	72.01	72.01	75.0	61.42	68.00	71.00	67.00	68.00
0805.0	74.01	74.01	75.3	62.30	69.00	72.00	68.00	69.00
0810.0	76.01	76.01	75.6	63.18	70.00	73.00	69.00	70.00
0815.0	78.01	78.01	76.0	64.06	71.00	74.00	70.00	71.00
0820.0	80.01	80.01	76.3	64.94	72.00	75.00	71.00	72.00
0825.0	82.01	82.01	76.6	65.82	73.00	76.00	72.00	73.00
0830.0	84.01	84.01	76.9	66.70	74.00	77.00	73.00	74.00
0835.0	86.01	86.01	77.2	67.58	75.00	78.00	74.00	75.00
0840.0	88.01	88.01	77.5	68.46	76.00	79.00	75.00	76.00
0845.0	90.01	90.01	77.8	69.34	77.00	80.00	76.00	77.00
0850.0	92.01	92.01	78.1	70.22	78.00	81.00	77.00	78.00
0855.0	94.01	94.01	78.4	71.10	79.00	82.00	78.00	79.00
0900.0	96.01	96.01	78.7	71.98	80.00	83.00	79.00	80.00
0905.0	98.01	98.01	79.0	72.86	81.00	84.00	80.00	81.00
0910.0	100.01	100.01	79.3	73.74	82.00	85.00	81.00	82.00
0915.0	102.01	102.01	79.6	74.62	83.00	86.00	82.00	83.00
0920.0	104.01	104.01	79.9	75.50	84.00	87.00	83.00	84.00
0925.0	106.01	106.01	80.2	76.38	85.00	88.00	84.00	85.00
0930.0	108.01	108.01	80.5	77.26	86.00	89.00	85.00	86.00
0935.0	110.01	110.01	80.8	78.14	87.00	90.00	86.00	87.00
0940.0	112.01	112.01	81.1	79.02	88.00	91.00	87.00	88.00
0945.0	114.01	114.01	81.4	79.90	89.00	92.00	88.00	89.00
0950.0	116.01	116.01	81.7	80.78	90.00	93.00	89.00	90.00
0955.0	118.01	118.01	82.0	81.66	91.00	94.00	90.00	91.00
1000.0	120.01	120.01	82.3	82.54	92.00	95.00	91.00	92.00
1005.0	122.01	122.01	82.6	83.42	93.00	96.00	92.00	93.00
1010.0	124.01	124.01	82.9	84.30	94.00	97.00	93.00	94.00
1015.0	126.01	126.01	83.2	85.18	95.00	98.00	94.00	95.00
1020.0	128.01	128.01	83.5	86.06	96.00	99.00	95.00	96.00
1025.0	130.01	130.01	83.8	86.94	97.00	100.00	96.00	97.00
1030.0	132.01	132.01	84.1	87.82	98.00	101.00	97.00	98.00
1035.0	134.01	134.01	84.4	88.70	99.00	102.00	98.00	99.00
1040.0	136.01	136.01	84.7	89.58	100.00	103.00	99.00	100.00
1045.0	138.01	138.01	85.0	90.46	101.00	104.00	100.00	101.00
1050.0	140.01	140.01	85.3	91.34	102.00	105.00	101.00	102.00
1055.0	142.01	142.01	85.6	92.22	103.00	106.00	102.00	103.00
1060.0	144.01	144.01	85.9	93.10	104.00	107.00	103.00	104.00
1065.0	146.01	146.01	86.2	93.98	105.00	108.00	104.00	105.00
1070.0	148.01	148.01	86.5	94.86	106.00	109.00	105.00	106.00
1075.0	150.01	150.01	86.8	95.74	107.00	110.00	106.00	107.00
1080.0	152.01	152.01	87.1	96.62	108.00	111.00	107.00	108.00
1085.0	154.01	154.01	87.4	97.50	109.00	112.00	108.00	109.00
1090.0	156.01	156.01	87.7	98.38	110.00	113.00	109.00	110.00
1095.0	158.01	158.01	88.0	99.26	111.00	114.00	110.00	111.00
1100.0	160.01	160.01	88.3	100.14	112.00	115.00	111.00	112.00

RUN NUMBER	300.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	4.500
PRIMARY TEMPERATURE (IN)	475.000
SECONDARY TEMPERATURE (IN)	525.000
PRIMARY PRESSURE RATIO	1.250
AREA RATIO	4.050
VELOCITY RATIO	1.910
PRIMARY VELOCITY (FT/SEC)	666.200
MASS-FLOW RATIO	6.340
PRIMARY MASS FLOW (LB/SEC)	1.190
THRUST (LBS)	21.500
ENVIRONMENTAL TEMPERATURE (IN)	510.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	66.000
CALCULATION FACTOR 100 TO 0.000 CM	5000
INSTRUMENTATION NOISE FLOOR (DB)	48.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.34529E-01	121.3	THRUST	POWER LEVEL (DB)
500	5.80335E-03	107.4	10000	140.0
1000	2.00420E-02	113.0	20000	151.0
2000	3.50052E-02	115.5	40000	154.0
4000	3.74455E-02	115.4	80000	157.0
8000	2.32021E-02	113.7		
10000	1.07105E-02	110.3		
31500	4.37179E-03	100.4		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	SOUND PRESSURE LEVELS 2000	31500	OVER ALL
10.0	84.1	80.3	73.1	80.3	83.0
20.0	85.6	81.8	74.6	81.3	83.4
30.0	84.4	80.2	71.0	78.0	82.3
40.0	83.4	80.7	70.5	79.0	82.4
50.0	81.0	80.2	70.0	78.0	80.2
60.0	79.8	80.4	69.0	77.0	79.2
70.0	77.9	80.0	68.2	75.0	77.9
80.0	77.5	80.1	67.3	74.0	77.8
90.0	77.1	80.4	66.9	72.0	77.9
100.0	76.0	81.0	65.6	70.0	76.0
110.0	74.0	81.3	65.0	68.0	74.0
120.0	72.0	81.4	63.7	66.0	72.0
130.0	70.1	80.0	62.1	64.0	70.0
140.0	70.3	80.6	61.0	63.0	69.0
150.0	70.0	80.5	60.1	62.0	68.0
160.0	70.0	80.7	59.6	61.0	67.0
170.0	70.0	80.7	59.6	61.0	67.0
180.0	70.0	80.7	59.6	61.0	67.0
190.0	70.0	80.7	59.6	61.0	67.0
200.0	70.0	80.7	59.6	61.0	67.0
210.0	70.0	80.7	59.6	61.0	67.0
220.0	70.0	80.7	59.6	61.0	67.0
230.0	70.0	80.7	59.6	61.0	67.0
240.0	70.0	80.7	59.6	61.0	67.0
250.0	70.0	80.7	59.6	61.0	67.0
260.0	70.0	80.7	59.6	61.0	67.0
270.0	70.0	80.7	59.6	61.0	67.0
280.0	70.0	80.7	59.6	61.0	67.0
290.0	70.0	80.7	59.6	61.0	67.0
300.0	70.0	80.7	59.6	61.0	67.0

MODEL THRUST = 21.500 FULL SCALE THRUST = 20000.000

LV	PHON.	500 Hz	OCTAVE BAND	1000	2000	4000	8000	16000	31500	63000	125000	250000	500000	1000000
		10.0	22.0	45.0	131.1	262.3	524.0	1032.0	2048.0	4096.0	8192.0	16384.0		
3705.4	61.31 (88.7)	60.0	61.07	65.00	40.02	60.05	53.03	45.77	30.02	22.10	-4.15	-51.30	-170.00	
4305.7	67.31 (86.9)	72.7	63.00	68.34	60.10	64.02	57.02	48.09	42.30	33.70	20.07	-26.35	-170.00	
3340.3	70.01 (84.7)	70.4	63.00	69.30	70.14	60.08	63.72	47.10	37.17	19.04	-10.10	-59.10		
3000.0	70.31 (83.0)	70.0	64.00	69.02	71.00	60.00	65.10	46.01	42.00	27.01	-1.72	-40.10		
2615.7	70.71 (81.2)	70.0	63.00	69.10	72.00	71.50	67.03	41.32	50.02	40.45	32.03	0.90	-70.02	
2235.0	71.01 (80.0)	60.0	62.00	69.00	71.00	60.00	67.00	40.00	40.00	37.00	20.00	-170.00		
2121.3	70.01 (78.7)	70.0	61.01	67.70	71.57	71.70	60.35	40.00	40.30	41.13	30.00	20.01	-100.00	
1850.1	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
1831.7	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
1732.1	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
1644.1	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
1550.5	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
1452.9	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
1353.1	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
1250.7	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
1150.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
1050.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
950.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
850.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
750.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
650.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
550.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
450.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
350.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
250.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
150.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		
50.0	70.01 (77.0)	77.0	61.00	67.00	71.00	71.00	60.00	40.00	40.00	37.00	20.00	-170.00		

MIN NUMBER	123.000
AXIAL POSITION OF PRIMARY WPT. SECONDARY (INS.)	74.500
PRIMARY TEMPERATURE (IN)	535.000
SECONDARY TEMPERATURE (IN)	535.000
PRIMARY PRESSURE (ATM)	1.419
AIR RATIO	0.744
VELOCITY RATIO	0.344
PRIMARY VELOCITY (FT/SEC)	853.444
MASS FLOW RATIO	3.033
PRIMARY MASS FLOW (LB/SEC)	217
THRUST (LBS)	13.000
ENVIRONMENTAL TEMPERATURE (IN)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.478
ENVIRONMENTAL HUMIDITY (PER CENT)	63.000
CALIBRATION FACTOR (IN TO 0.7735 CM)	0.000
INSTRUMENTATION NOISE FLOOR (DB)	45.500

Reproduced from
best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	8.98007E-02	119.5	THRUST POWER LEVEL (DB)
500	2.47170E-03	103.9	10000 148.4
1000	1.34369E-02	111.9	20000 151.4
2000	4.70460E-02	116.7	40000 156.4
4000	1.71573E-02	112.3	80000 157.4
8000	5.23153E-03	107.2	
16000	1.10043E-03	102.0	
31500	7.34009E-04	98.7	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND	SOUND PRESSURE LEVELS	OVER ALL
15.0	88.0	88.0	88.0	88.0
20.0	88.2	88.5	88.5	88.5
25.0	88.7	88.9	88.9	88.9
30.0	89.3	89.6	89.6	89.6
35.0	89.9	89.9	89.9	89.9
40.0	90.7	90.9	90.9	90.9
45.0	91.7	91.8	91.8	91.8
50.0	92.9	92.9	92.9	92.9
55.0	94.3	94.3	94.3	94.3
60.0	95.9	95.9	95.9	95.9
65.0	97.7	97.7	97.7	97.7
70.0	99.7	99.7	99.7	99.7
75.0	101.9	101.9	101.9	101.9
80.0	104.3	104.3	104.3	104.3
85.0	106.9	106.9	106.9	106.9
90.0	109.7	109.7	109.7	109.7
95.0	112.7	112.7	112.7	112.7
100.0	115.9	115.9	115.9	115.9
105.0	119.3	119.3	119.3	119.3
110.0	122.9	122.9	122.9	122.9
115.0	126.7	126.7	126.7	126.7

MODEL THRUST = 13.000 FULL SCALE THRUST = 20000.000

ANGLE (DEG)	500	OCTAVE BAND	SOUND PRESSURE LEVELS	OVER ALL
15.0	88.0	88.0	88.0	88.0
20.0	88.2	88.5	88.5	88.5
25.0	88.7	88.9	88.9	88.9
30.0	89.3	89.6	89.6	89.6
35.0	89.9	89.9	89.9	89.9
40.0	90.7	90.9	90.9	90.9
45.0	91.7	91.8	91.8	91.8
50.0	92.9	92.9	92.9	92.9
55.0	94.3	94.3	94.3	94.3
60.0	95.9	95.9	95.9	95.9
65.0	97.7	97.7	97.7	97.7
70.0	99.7	99.7	99.7	99.7
75.0	101.9	101.9	101.9	101.9
80.0	104.3	104.3	104.3	104.3
85.0	106.9	106.9	106.9	106.9
90.0	109.7	109.7	109.7	109.7
95.0	112.7	112.7	112.7	112.7
100.0	115.9	115.9	115.9	115.9
105.0	119.3	119.3	119.3	119.3
110.0	122.9	122.9	122.9	122.9
115.0	126.7	126.7	126.7	126.7

Reproduced from
best available copy.

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
			THRUST	POWER LEVEL (DB)
OVERALL	1.76x122-01	122.4		
500	1.37x10E-02	111.4	16000	147.2
1000	3.36E-02	115.2	20000	150.2
2000	5.23E-02	117.2	40000	152.2
4000	6.00E-02	118.0	60000	156.2
8000	2.18E-02	113.2		
16000	6.4E-03	109.0		
31500	4.05E-03	106.1		

ANGLE (DEG)	540	OCTAVE 1000	840 1000	640 1000	SOUND PRESSURE 1000	LEVEL 1000	2100	OVER REC
10.0	80.0	80.0	80.0	80.0	70.0	70.0	70.0	70.0
20.0	80.0	81.5	81.5	80.0	60.0	70.0	70.0	70.0
30.0	80.0	81.5	81.5	80.0	50.0	70.0	70.0	70.0
40.0	80.0	81.5	81.5	80.0	40.0	70.0	70.0	70.0
50.0	80.0	81.5	81.5	80.0	30.0	70.0	70.0	70.0
60.0	80.0	81.5	81.5	80.0	20.0	70.0	70.0	70.0
70.0	80.0	81.5	81.5	80.0	10.0	70.0	70.0	70.0
80.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
90.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
100.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
110.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
120.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
130.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
140.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
150.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
160.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
170.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
180.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
190.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
200.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
210.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
220.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
230.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
240.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
250.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
260.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
270.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
280.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
290.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
300.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
310.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
320.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
330.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
340.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
350.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0
360.0	80.0	81.5	81.5	80.0	0.0	70.0	70.0	70.0

Abstract

NAME NUMBER	12M.00 (R12.00)
AIRAL POSITION OF PRIMARY DWT. SECONDARY (INCH)	474.000
PRIMARY TEMPERATURE (IN)	370.000
SECONDARY TEMPERATURE (IN)	370.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	890.316
SECONDARY VELOCITY (FT/SEC)	1.000
PRIMARY MASS FLOW (LBS/SEC)	1.000
THrust (LBS)	70.000
ENVIRONMENTAL TEMPERATURE (IN)	370.000
ENVIRONMENTAL PRESSURE (IN.HG)	70.000
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CORRECTION FACTOR FOR DENSITY	1.000
INSTRUMENTATION NOISE FLOOR (DB)	50.500

Reproduced from
best available copy.

ACOUSTIC DATA AND SOUND POWER LEVEL FOR MODEL 307

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	1.25000E-00	121.0	THRUST 10000 POWER LEVEL (DB) 121.0
500	1.55107E-02	121.0	20000 120.2
1000	1.17022E-02	120.7	40000 119.2
2000	3.21023E-03	123.1	80000 120.2
4000	3.15707E-03	123.0	
8000	2.77105E-03	124.0	
16000	1.10000E-03	127.0	
31500	6.10000E-02	117.0	

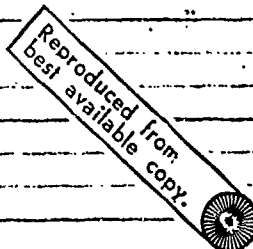
EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE	OCTAVE	BAND	SOUND	PRESSURE	LEVEL	OVER
DEGREE	1000	2000	4000	8000	16000	31500
10.0	80.0	80.0	100.0	80.0	80.0	80.0
20.0	80.0	80.0	100.0	80.0	80.0	80.0
30.0	80.0	80.0	100.0	80.0	80.0	80.0
40.0	80.0	80.0	100.0	80.0	80.0	80.0
50.0	80.0	80.0	100.0	80.0	80.0	80.0
60.0	80.0	80.0	100.0	80.0	80.0	80.0
70.0	80.0	80.0	100.0	80.0	80.0	80.0
80.0	80.0	80.0	100.0	80.0	80.0	80.0
90.0	80.0	80.0	100.0	80.0	80.0	80.0
100.0	80.0	80.0	100.0	80.0	80.0	80.0
110.0	80.0	80.0	100.0	80.0	80.0	80.0
120.0	80.0	80.0	100.0	80.0	80.0	80.0
130.0	80.0	80.0	100.0	80.0	80.0	80.0
140.0	80.0	80.0	100.0	80.0	80.0	80.0
150.0	80.0	80.0	100.0	80.0	80.0	80.0
160.0	80.0	80.0	100.0	80.0	80.0	80.0
170.0	80.0	80.0	100.0	80.0	80.0	80.0
180.0	80.0	80.0	100.0	80.0	80.0	80.0
190.0	80.0	80.0	100.0	80.0	80.0	80.0
200.0	80.0	80.0	100.0	80.0	80.0	80.0
210.0	80.0	80.0	100.0	80.0	80.0	80.0
220.0	80.0	80.0	100.0	80.0	80.0	80.0
230.0	80.0	80.0	100.0	80.0	80.0	80.0
240.0	80.0	80.0	100.0	80.0	80.0	80.0
250.0	80.0	80.0	100.0	80.0	80.0	80.0
260.0	80.0	80.0	100.0	80.0	80.0	80.0
270.0	80.0	80.0	100.0	80.0	80.0	80.0
280.0	80.0	80.0	100.0	80.0	80.0	80.0
290.0	80.0	80.0	100.0	80.0	80.0	80.0
300.0	80.0	80.0	100.0	80.0	80.0	80.0
310.0	80.0	80.0	100.0	80.0	80.0	80.0
320.0	80.0	80.0	100.0	80.0	80.0	80.0
330.0	80.0	80.0	100.0	80.0	80.0	80.0
340.0	80.0	80.0	100.0	80.0	80.0	80.0
350.0	80.0	80.0	100.0	80.0	80.0	80.0
360.0	80.0	80.0	100.0	80.0	80.0	80.0

MODEL THRUST = 20.000 FULL SCALE THRUST = 20000.000

ANGLE	OCTAVE	BAND	SOUND	PRESSURE	LEVEL	OVER
DEGREE	1000	2000	4000	8000	16000	31500
10.0	80.0	80.0	100.0	80.0	80.0	80.0
20.0	80.0	80.0	100.0	80.0	80.0	80.0
30.0	80.0	80.0	100.0	80.0	80.0	80.0
40.0	80.0	80.0	100.0	80.0	80.0	80.0
50.0	80.0	80.0	100.0	80.0	80.0	80.0
60.0	80.0	80.0	100.0	80.0	80.0	80.0
70.0	80.0	80.0	100.0	80.0	80.0	80.0
80.0	80.0	80.0	100.0	80.0	80.0	80.0
90.0	80.0	80.0	100.0	80.0	80.0	80.0
100.0	80.0	80.0	100.0	80.0	80.0	80.0
110.0	80.0	80.0	100.0	80.0	80.0	80.0
120.0	80.0	80.0	100.0	80.0	80.0	80.0
130.0	80.0	80.0	100.0	80.0	80.0	80.0
140.0	80.0	80.0	100.0	80.0	80.0	80.0
150.0	80.0	80.0	100.0	80.0	80.0	80.0
160.0	80.0	80.0	100.0	80.0	80.0	80.0
170.0	80.0	80.0	100.0	80.0	80.0	80.0
180.0	80.0	80.0	100.0	80.0	80.0	80.0
190.0	80.0	80.0	100.0	80.0	80.0	80.0
200.0	80.0	80.0	100.0	80.0	80.0	80.0
210.0	80.0	80.0	100.0	80.0	80.0	80.0
220.0	80.0	80.0	100.0	80.0	80.0	80.0
230.0	80.0	80.0	100.0	80.0	80.0	80.0
240.0	80.0	80.0	100.0	80.0	80.0	80.0
250.0	80.0	80.0	100.0	80.0	80.0	80.0
260.0	80.0	80.0	100.0	80.0	80.0	80.0
270.0	80.0	80.0	100.0	80.0	80.0	80.0
280.0	80.0	80.0	100.0	80.0	80.0	80.0
290.0	80.0	80.0	100.0	80.0	80.0	80.0
300.0	80.0	80.0	100.0	80.0	80.0	80.0
310.0	80.0	80.0	100.0	80.0	80.0	80.0
320.0	80.0	80.0	100.0	80.0	80.0	80.0
330.0	80.0	80.0	100.0	80.0	80.0	80.0
340.0	80.0	80.0	100.0	80.0	80.0	80.0
350.0	80.0	80.0	100.0	80.0	80.0	80.0
360.0	80.0	80.0	100.0	80.0	80.0	80.0

MIN NUMBER	324.00 (762.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (IN.)	-4.500
PRIMARY TEMPERATURE (°K)	330.000
SECONDARY TEMPERATURE (°K)	530.000
PRIMARY PRESSURE RATIO	1.327
AREA RATIO	1.000
VELOCITY RATIO	1.472
PRIMARY VELOCITY (FT/SEC)	700.451
MASS FLOW RATIO	1.000
PRIMARY MASS FLOW (LB/SEC)	0.317
THRUST (LBS)	29.000
ENVIRONMENTAL TEMPERATURE (°K)	520.000
ENVIRONMENTAL PRESSURE (IN.HG)	24.690
ENVIRONMENTAL HUMIDITY (PER CENT)	70.500
CALIBRATION FACTOR (W/TO DY/33 CM)	0.045
INSTRUMENTATION NOISE FLOOR (DB)	62.585



ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	2.43392E+00	133.9	THRUST 10000 159.2
500	2.90406E-02	114.6	20000 162.2
1000	1.93380E-01	122.9	40000 165.3
2000	5.55024E-01	127.4	80000 168.3
4000	5.01093E-01	127.0	
8000	5.25122E-01	127.2	
10000	5.34031E-01	127.3	
31500	1.95410E-01	122.9	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	10000	31500	OVER ALL
10.0	84.4	102.6	105.1	101.6	94.7	92.5	86.9	100.8
20.0	93.4	102.2	106.2	103.4	98.6	94.2	89.5	109.7
30.0	92.5	101.7	105.0	100.5	99.5	94.9	90.3	109.0
38.0	90.8	99.6	104.7	103.7	100.8	96.1	91.2	109.1
45.0	89.1	97.9	102.7	102.7	100.0	97.1	92.0	108.0
48.0	88.6	95.1	100.1	101.9	101.1	97.6	93.2	107.0
50.0	84.0	92.0	98.5	100.5	100.0	97.4	93.7	106.0
50.0	83.3	91.4	96.7	99.3	99.8	97.4	93.8	105.1
55.0	82.0	89.9	95.7	97.7	98.7	96.0	93.7	104.0
60.0	82.1	88.9	94.7	97.0	97.9	94.5	93.5	103.4
65.0	82.5	88.0	94.1	96.4	97.4	94.1	93.4	102.7
70.0	81.7	88.1	93.3	95.0	96.6	95.6	93.3	102.4
70.0	80.0	87.0	92.0	95.1	95.5	95.4	93.2	102.0
80.0	80.8	87.2	92.3	95.0	96.2	95.3	93.2	101.6
85.0	80.3	86.5	92.1	94.5	95.9	95.0	93.2	101.3
90.0	79.7	86.1	91.6	94.1	95.5	94.5	93.3	101.2
95.0	79.0	86.6	91.1	93.6	95.5	94.9	93.3	101.1
100.0	78.6	85.5	90.8	93.3	94.9	95.5	94.1	101.1
105.0	78.4	84.7	90.1	93.1	94.5	95.3	94.0	100.9
110.0	77.4	84.0	89.4	92.4	94.5	95.6	94.3	100.9
115.0	77.1	83.0	88.7	92.5	94.4	95.6	94.0	100.7

MODEL THRUST = 29.000 FULL SCALE THRUST = 20000.000

ANGLE (DEG)	500	1000	2000	4000	8000	10000	31500	4750.9	9510.7	19030.4
8795.6	80.0 (79.5)	82.1	88.10	76.24	78.67	74.99	69.01	62.32	50.73	34.23
4388.7	84.7 (84.1)	85.8	89.51	78.98	82.25	76.14	72.69	67.34	59.09	44.67
3546.3	87.3 (86.4)	87.2	70.43	79.66	83.88	81.21	76.60	70.46	62.19	50.92
3000.0	84.9 (84.4)	86.1	70.10	78.00	84.02	82.04	76.51	73.49	69.93	55.54
2616.2	80.8 (80.4)	85.2	67.68	78.13	83.74	82.00	80.80	75.80	64.71	59.62
2349.4	81.4 (80.2)	84.1	66.74	74.00	81.59	83.80	87.12	87.02	74.77	62.30
2121.3	82.4 (80.5)	87.1	67.20	75.25	80.87	82.70	87.45	74.61	72.52	64.58
1954.1	82.0 (80.5)	87.7	66.51	74.50	79.74	82.50	87.45	74.50	73.50	64.00
1831.2	82.5 (80.1)	87.2	66.11	73.53	79.31	81.30	81.97	70.27	74.29	67.02
1738.7	82.5 (80.9)	87.0	66.10	73.03	78.83	81.08	81.08	74.59	74.74	67.70
1655.1	82.0 (80.9)	86.9	66.04	73.20	78.61	80.81	81.61	77.32	75.20	68.34
1590.7	82.0 (80.7)	86.7	66.04	73.07	78.71	80.92	81.33	74.43	75.47	68.75
1552.4	82.5 (80.8)	86.5	65.43	72.71	77.62	80.09	81.22	79.47	75.64	69.02
1523.1	82.0 (80.6)	86.5	65.10	72.42	77.51	80.14	81.09	79.01	75.80	69.31
1504.7	82.5 (80.6)	86.3	65.05	71.84	77.44	79.72	80.84	74.34	74.06	69.55
1480.0	82.5 (80.1)	86.0	65.10	71.41	77.00	79.40	80.50	74.42	74.17	69.68
1509.7	82.2 (80.0)	85.9	64.44	71.58	76.47	74.86	80.48	73.29	71.13	64.02
1478.1	82.0 (80.1)	85.7	64.00	70.76	76.04	74.47	79.45	74.01	70.26	60.14
1447.4	82.0 (80.7)	85.3	63.49	69.77	75.18	74.47	74.29	74.43	74.46	69.86
1404.3	81.4 (80.4)	85.0	62.96	68.00	74.46	74.43	74.04	74.34	74.47	69.75
1354.1	81.3 (80.1)	84.5	61.04	67.33	73.71	74.74	74.97	73.14	74.73	68.88

MIN MINIMUM
 AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)
 PRIMARY TEMPERATURE (°F)
 SECONDARY TEMPERATURE (°F)
 PRIMARY PRESSURE RATIO
 AREA RATIO
 VELOCITY RATIO
 PRIMARY VELOCITY (FT/SEC)
 MASS FLOW RATIO
 PRIMARY MASS FLOW (LBS/SEC)
 THRUST (LBS)
 ENVIRONMENTAL TEMPERATURE (°F)
 ENVIRONMENTAL PRESSURE (IN.HG)
 ENVIRONMENTAL HUMIDITY (PER CENT)
 CORRECTION FACTOR (IN. H₂O/IN. H₂O)
 INSTRUMENTATION NOISE FLOOR (DB)

330.000
 0.000
 330.000
 530.000
 7.224
 7.007
 3.399
 1144.130
 7.749
 3.353
 14.000
 510.000
 20.000
 67.000
 0.022
 50.584

Reproduced from
 best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL 301

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	1.05193E+00	130.2	THRUST 14000 POWER LEVEL (DB) 154.8
500	1.11567E-02	110.5	20000 161.8
1000	5.74105E-02	117.0	40000 164.8
2000	2.36950E-01	123.7	80000 167.8
4000	3.82255E-01	125.9	
8000	2.36612E-01	123.7	
16000	9.13300E-02	119.0	
31500	2.00646E-02	114.6	

EXPERIMENTAL DATA
 TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	87.9	84.1	86.0	84.6	84.2	83.0	100.8	
20.0	87.6	84.2	86.0	84.3	84.6	85.1	101.9	
25.0	86.9	83.3	86.0	84.4	82.2	86.7	102.3	
30.0	85.9	82.8	86.1	84.7	83.7	88.1	102.9	
35.0	84.7	82.1	86.0	84.7	83.4	89.0	103.5	
40.0	84.1	81.0	86.0	84.3	82.3	91.6	104.1	
45.0	82.9	80.4	87.1	84.0	81.0	92.6	103.9	
50.0	82.0	80.4	86.7	84.0	80.8	93.3	103.8	
55.0	81.3	80.5	86.0	84.0	80.7	93.0	103.8	
60.0	80.2	80.4	84.7	83.8	80.0	92.0	102.0	
65.0	79.1	80.7	84.0	83.9	80.0	91.0	101.3	
70.0	78.3	80.0	82.9	83.7	80.3	90.9	100.2	
75.0	77.7	80.9	82.1	83.3	80.3	90.9	99.0	
80.0	77.7	80.4	81.4	82.4	80.2	90.2	99.1	
85.0	77.0	80.0	81.1	82.0	80.0	89.0	98.4	
90.0	76.1	80.4	81.2	82.5	80.3	88.5	97.9	
95.0	75.0	80.0	80.0	81.0	80.0	87.0	97.1	
100.0	74.8	81.9	80.2	81.7	80.5	87.1	96.6	
105.0	73.9	80.0	80.0	81.4	80.0	86.0	96.0	
110.0	73.3	79.3	80.9	80.4	80.0	86.7	94.9	
115.0	72.0	78.5	80.5	80.4	80.5	84.3	92.7	

MODEL THRUST = 14.000 FULL SCALE THRUST = 20000.000

ANGLE	500	OCTAVE BAND	SOUND PRESSURE LEVELS										
			1000	2000	4000	8000	16000	31500	ALL				
15.0	73.4 (72.7)	77.5	64.70	70.48	73.70	71.20	65.31	57.83	48.96	37.00	15.18	-24.57	-92.03
20.0	78.0 (77.5)	81.0	66.08	73.47	77.17	75.41	69.25	62.80	59.30	49.57	28.78	-2.52	-84.31
25.0	82.4 (81.1)	83.2	64.00	74.40	74.10	71.39	72.85	66.44	60.40	51.91	37.39	11.88	-30.59
30.0	85.4 (83.9)	85.3	60.43	75.40	69.03	81.10	75.85	69.52	63.21	55.37	42.83	20.81	-15.56
35.0	88.0 (86.3)	87.1	60.44	75.43	81.49	83.40	78.66	72.70	66.35	59.31	47.82	28.24	-3.68
40.0	90.0 (88.4)	89.1	60.08	75.70	82.07	84.44	81.74	75.40	68.80	62.14	51.61	33.82	4.80
45.0	91.5 (89.4)	89.3	60.52	75.94	82.41	85.51	82.88	77.30	70.52	64.24	54.15	37.90	11.31
50.0	92.5 (90.4)	89.0	60.20	75.43	82.92	86.03	83.82	78.84	71.74	65.71	56.35	40.94	14.16
55.0	92.7 (90.3)	89.7	60.12	75.40	82.48	85.76	83.70	79.11	72.79	66.96	58.01	43.40	20.03
60.0	92.3 (89.8)	89.7	60.92	74.68	82.06	85.05	83.15	78.82	72.61	66.94	58.31	44.31	22.07
65.0	92.3 (89.7)	89.0	60.80	74.19	81.70	84.55	83.10	78.72	72.60	67.24	58.86	45.37	21.96
70.0	91.0 (89.2)	89.1	60.32	74.04	80.90	83.04	82.11	78.27	72.47	67.00	59.02	45.70	24.94
75.0	91.5 (89.4)	89.4	60.44	74.14	80.40	83.50	82.14	78.44	72.17	66.77	58.72	45.88	25.61
80.0	91.5 (89.4)	89.4	60.11	73.47	79.79	82.74	81.40	78.09	72.47	67.52	59.57	46.91	24.97
85.0	90.7 (87.7)	89.0	60.55	73.42	79.60	81.84	81.10	77.40	71.95	66.62	59.73	46.18	24.44
90.0	90.1 (87.2)	88.1	60.71	73.19	79.40	81.00	80.73	76.50	71.21	65.89	58.62	45.51	24.43
95.0	89.4 (86.4)	88.4	60.43	72.70	79.11	80.10	79.76	76.44	70.47	65.54	57.45	45.18	24.35
100.0	88.4 (85.4)	88.4	60.30	72.44	78.90	80.14	79.70	76.00	69.94	65.03	56.78	44.93	24.04
105.0	87.4 (84.4)	88.1	61.46	72.13	78.44	79.32	78.04	76.04	69.94	64.94	55.50	44.65	24.14
110.0	86.4 (83.4)	87.4	61.31	71.74	78.44	78.44	76.11	74.15	68.44	63.19	55.01	44.89	21.13
115.0	85.4 (82.7)	86.3	60.50	71.23	78.04	78.04	76.04	74.04	68.04	63.04	54.04	44.04	21.11

NUM NUMBER	331.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INCH)	4.500
PRIMARY TEMPERATURE (°F)	515.0
SECONDARY TEMPERATURE (°F)	515.0
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	2.007
VELOCITY RATIO	1.965
PRIMARY VELOCITY (FT/SEC)	905.730
MASS FLOW RATIO	1.057
PRIMARY MASS FLOW (LB/SEC)	1.342
THRUST (LBS)	28.000
ENVIRONMENTAL TEMPERATURE (°F)	519.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	67.000
CALIBRATION FACTOR (IN TO OUT/IN)	1.012
INSTRUMENTATION NOISE FLOOR (DB)	50.573

Reproduced from
best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.79780E+00	132.5	THRUST	POWER LEVEL (DB)
500	1.9804E-02	113.0	10000	150.1
1000	1.1959E-01	120.8	20000	161.1
2000	3.6375E-01	125.6	40000	164.1
4000	4.4585E-01	126.5	80000	167.1
8000	4.7012E-01	126.7		
16000	2.7079E-01	124.4		
31500	1.0652E-01	120.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	OVER
			2000	4000	8000	16000		ALL
15.0	92.5	90.0	101.6	98.7	94.0	88.9	85.9	105.4
20.0	90.8	90.3	102.1	100.0	96.3	92.1	88.6	106.1
25.0	89.5	88.1	102.4	101.2	98.9	94.8	90.5	107.0
30.0	88.4	86.8	102.0	102.0	99.0	95.4	90.5	107.1
35.0	86.0	85.2	100.9	101.4	100.7	97.1	92.2	106.8
40.0	84.9	83.4	99.1	100.7	101.0	98.1	93.1	106.4
45.0	84.1	82.0	97.2	97.4	100.3	97.9	92.3	105.8
50.0	83.0	80.5	96.4	98.2	99.3	97.3	92.9	104.5
55.0	81.9	80.0	95.9	97.5	98.7	96.8	92.0	103.9
60.0	81.0	80.3	95.0	96.7	98.1	96.1	92.0	103.2
65.0	81.7	80.2	94.1	96.2	97.0	95.0	91.3	102.8
70.0	80.0	80.0	93.7	95.6	96.0	95.2	91.3	102.1
75.0	81.2	80.0	92.9	95.5	95.1	94.2	90.0	101.9
80.0	80.3	80.3	92.3	94.7	95.5	93.5	89.6	100.8
85.0	79.0	80.4	92.2	94.5	95.1	93.3	89.0	100.9
90.0	79.3	80.5	91.6	93.7	94.9	93.1	89.4	100.1
95.0	79.0	80.1	91.4	93.3	94.5	92.7	89.0	99.7
100.0	78.6	80.0	90.6	92.6	93.6	92.1	88.4	99.0
105.0	78.1	80.0	89.7	92.1	93.0	92.1	88.0	98.7
110.0	78.5	82.0	88.7	92.2	93.2	92.3	88.5	98.5
115.0	77.1	81.5	87.1	90.9	92.0	92.0	88.4	97.8

MODEL THRUST = 20.000 FULL SCALE THRUST = 20000.000

LV	PNDB	GASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	OVER
			10.7	37.4	74.0	149.7	299.3	598.7	1178.6
3705.0	76.51	76.11	78.9	66.32	72.65	75.30	72.09	66.50	58.88
4385.7	81.61	80.01	82.0	67.05	74.55	78.30	75.01	71.54	65.47
3548.3	85.81	84.81	84.7	67.61	76.14	80.45	76.01	70.21	62.69
3000.0	88.21	87.11	86.3	67.95	76.37	81.53	76.74	73.01	64.06
2615.7	90.31	88.81	87.0	67.35	75.46	81.21	76.04	70.15	63.58
2333.7	91.71	90.01	87.0	66.44	74.10	80.00	75.27	70.00	62.02
2121.3	92.21	90.31	87.6	66.64	74.58	80.74	75.07	72.34	64.49
1950.1	92.21	90.01	87.2	66.24	73.72	79.67	74.71	72.15	64.97
1831.2	92.41	90.11	87.2	65.34	73.67	79.35	74.21	72.10	64.49
1732.1	92.31	90.01	87.1	66.16	73.77	79.33	74.00	72.00	64.44
1655.1	92.21	89.81	86.9	66.44	72.90	78.81	73.84	71.25	63.20
1590.3	92.11	89.61	86.7	65.93	72.40	78.00	73.51	71.15	62.72
1552.9	91.71	89.11	86.3	66.77	73.24	78.12	73.04	70.46	61.33
1523.1	91.21	88.61	85.8	66.69	72.71	77.67	72.04	69.57	60.09
1505.7	91.01	88.41	85.6	65.38	72.44	77.49	71.76	68.28	59.00
1500.0	90.81	88.11	85.2	64.04	72.07	77.10	71.12	68.10	58.19
1505.7	90.31	87.41	84.9	64.50	71.61	76.94	70.64	67.45	57.21
1523.1	90.01	86.71	84.8	64.04	71.00	76.00	70.00	67.00	56.70
1542.9	89.11	86.31	83.5	61.94	69.42	74.43	70.14	67.22	56.47
1590.3	88.51	85.81	83.0	61.49	67.80	73.72	70.07	67.04	56.22
1655.1	87.51	84.81	81.9	65.23	71.76	75.04	70.77	67.04	55.04

WIND NUMBER	137.000
AIRAL POSITION IN PRIMARY AND SECONDARY (INCH)	14.500
PRIMARY TEMPERATURE (°F)	53.000
SECONDARY TEMPERATURE (°F)	54.000
PRIMARY PRESSURE RATIO	1.322
AREA RATIO	2.007
VELOCITY WATER	1.472
PRIMARY VELOCITY (FT/SEC)	702.411
WATER FLOW RATE	2.497
PRIMARY MASS FLOW (LBS/SEC)	0.317
THRUST (LBS)	40.000
ENVIRONMENTAL TEMPERATURE (°F)	519.001
ENVIRONMENTAL PRESSURE (IN.HG)	29.693
ENVIRONMENTAL HUMIDITY (PER CENT)	67.000
CALCULATION FACTOR FOR 10 FT/SEC CUT	0.057
INSTRUMENTATION NOISE FLOOR (DB)	63.559

Reproduced from
Best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	4.74092E+00	136.8	THRUST POWER LEVEL (DB)
500	3.74795E-02	115.4	10000 160.7
1000	2.32510E-01	123.7	20000 163.7
2000	8.17771E-01	129.1	40000 166.8
4000	1.00713E+00	130.4	80000 169.8
8000	1.22545E+00	130.9	
16000	8.90231E-01	129.2	
31500	3.44090E-01	126.5	

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.0	103.0	104.0	103.1	99.5	95.1	91.0	100.0
20.0	95.0	101.8	103.4	105.1	100.9	97.3	93.0	110.1
25.0	92.9	101.3	100.9	100.0	103.7	100.4	98.2	111.3
30.0	91.1	100.3	100.3	100.5	104.3	101.0	97.1	111.6
35.0	89.5	98.4	103.9	100.5	105.9	102.8	98.0	111.8
40.0	87.5	98.5	102.9	105.1	105.8	103.2	99.2	110.9
45.0	89.7	94.2	100.0	103.5	104.7	103.3	99.0	109.9
50.0	84.1	92.3	99.1	101.7	103.5	102.5	99.0	108.7
55.0	84.0	92.1	98.0	100.2	102.4	101.0	99.9	107.7
60.0	84.1	91.8	97.3	99.5	101.5	100.4	98.1	106.0
65.0	84.2	91.0	96.9	99.4	100.9	100.0	97.3	105.3
70.0	84.0	90.7	96.7	98.5	99.8	99.0	96.3	105.4
75.0	83.8	90.7	96.0	96.1	97.8	97.0	96.4	105.2
80.0	83.5	90.1	95.4	97.7	95.9	98.2	96.1	104.6
85.0	83.2	89.9	95.1	97.4	95.9	97.9	95.9	104.4
90.0	82.4	89.5	94.5	96.6	94.3	97.5	95.3	103.0
95.0	82.5	89.1	94.5	96.4	94.1	97.0	94.3	103.0
100.0	81.4	88.3	93.4	96.1	93.0	96.1	95.4	103.7
105.0	80.0	87.5	93.4	95.0	92.7	95.0	95.0	103.7
110.0	80.2	86.3	92.5	95.0	92.6	95.2	95.2	103.3
115.0	79.8	85.4	91.2	93.0	92.7	95.3	95.3	103.3

MODEL THRUST = 40.000 FULL SCALE THRUST = 20000.00.

LV	PHASE	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS					
		22.4	44.7	89.4	178.9	357.8	715.5	1408.7	2817.4	5590.2	11180.3	22360.7
5795.4	80.01	79.71	80.5	67.26	74.21	76.75	73.80	69.01	62.44	51.30	32.26	-2.06
4305.7	85.21	84.01	84.2	68.57	76.45	80.30	76.36	74.27	68.25	59.28	44.74	17.44
3549.7	89.71	88.91	87.4	69.48	77.46	82.99	82.22	76.15	73.97	65.33	52.51	30.33
3000.0	92.11	91.01	89.0	69.09	78.30	84.78	84.17	81.42	78.44	68.85	57.50	38.34
2615.2	94.61	93.31	90.2	68.68	77.80	84.13	85.42	84.33	79.74	72.92	62.27	45.14
2333.6	95.11	94.01	90.5	67.99	76.46	83.00	84.33	81.43	78.44	68.85	57.50	38.34
2121.1	95.81	94.01	90.0	66.72	75.24	81.40	84.27	85.00	82.56	76.36	67.49	53.02
1950.1	95.51	93.01	89.5	65.81	74.47	80.78	83.70	84.86	82.51	76.85	68.23	56.85
1831.2	95.41	93.21	89.1	66.76	74.40	80.22	82.11	84.89	82.01	77.38	69.31	56.41
1732.7	95.21	92.91	88.8	66.84	74.53	80.06	82.13	83.70	81.92	77.29	69.30	57.14
1655.1	95.11	92.81	88.7	67.41	74.14	80.62	82.34	83.60	81.73	76.49	69.41	57.07
1590.3	94.11	92.71	88.2	67.45	74.17	80.11	81.74	82.79	81.11	76.88	69.08	57.44
1557.0	94.71	92.31	88.2	67.55	74.41	80.64	81.68	82.86	81.36	76.87	69.57	58.18
1523.1	94.31	91.81	87.8	67.43	74.17	80.22	81.41	82.32	80.47	76.74	69.54	58.31
1505.7	94.31	91.81	87.7	67.24	73.90	80.05	81.15	82.02	80.47	76.64	69.49	58.36
1500.0	93.71	91.21	87.1	66.97	73.48	79.47	80.44	81.44	80.22	76.14	69.01	57.90
1505.7	93.61	91.11	87.0	66.44	73.05	78.64	80.24	81.41	80.35	76.14	68.91	57.87
1521.1	93.61	90.61	86.9	65.44	72.74	77.44	79.44	80.74	80.74	76.14	68.91	57.87
1542.0	93.21	90.41	86.6	64.37	70.44	74.44	76.44	78.44	80.74	76.36	69.08	57.40
1594.3	92.41	90.01	85.0	63.72	69.44	74.44	76.44	78.44	80.74	76.36	69.08	57.40
1655.1	92.21	89.71	84.5	62.97	68.44	74.44	76.44	78.44	80.74	76.36	69.08	57.40

RUN NUMBER	133.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-0.500
PRIMARY TEMPERATURE (R)	524.000
SECONDARY TEMPERATURE (R)	526.000
PRIMARY PRESSURE RATIO	2.776
AREA RATIO	4.854
VELOCITY RATIO	1.309
PRIMARY VELOCITY (FT/SEC)	1140.744
MASS FLOW RATIO	1.741
PRIMARY MASS FLOW (LR/SEC)	1.350
THRUST (LBS)	21.500
ENVIRONMENTAL TEMPERATURE (R)	52.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.690
ENVIRONMENTAL HUMIDITY (PPF CENT)	70.500
CALIBRATION FACTOR (MV TO DY/50 CM)	0.020
INSTRUMENTATION NOISE FLOOR (DB)	55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	3.20229E+00	135.1	10000	161.7
			20000	164.7
			40000	167.8
			60000	170.8
500	2.72575E-02	114.4		
1000	1.94380E-01	122.9		
2000	8.64857E-01	129.4		
4000	1.06786E+00	130.3		
8000	6.75503E-01	128.3		
16000	2.73453E-01	124.4		
31500	9.89836E-02	120.8		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	SOUND PRESSURE LEVELS 2000	4000	8000	16000	31500	OVER ALL
15.0	86.4	91.7	94.0	91.7	85.7	81.2	75.0	96.0
22.5	86.3	92.9	95.1	93.0	87.5	82.3	76.0	99.3
30.0	86.0	93.4	96.4	94.7	89.7	83.8	78.5	100.7
37.5	85.3	92.3	97.1	96.4	90.5	84.6	79.0	101.1
45.0	85.3	92.3	97.1	96.4	90.5	84.6	79.0	101.1
52.5	82.6	90.7	97.5	97.8	92.2	86.1	81.4	102.0
60.0	81.6	89.7	97.3	97.1	92.0	86.2	83.2	102.9
67.5	80.2	88.8	97.0	97.0	91.8	85.8	84.1	102.9
75.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
82.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
90.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
97.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
105.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
112.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
120.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
127.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
135.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
142.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
150.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
157.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
165.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
172.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
180.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
187.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
195.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
202.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
210.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
217.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
225.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
232.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
240.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
247.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
255.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
262.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
270.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
277.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
285.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
292.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
300.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
307.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
315.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
322.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
330.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
337.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
345.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
352.5	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0
360.0	78.2	88.4	96.6	96.2	91.6	85.6	84.9	103.0

MODEL THRUST = 21.500 FULL SCALE THRUST = 20000.000

L.	PROR.	OSPL	OCTAVE BAND 16.0	32.0	63.0	125.0	250.0	500.0	1000.0	2000.0	4000.0	8000.0	16000.0
8795.0	67.4	66.7	70.6	61.30	66.02	70.46	66.31	69.00	53.02	42.52	28.00	1.75	-45.65
4385.7	73.7	72.9	70.6	63.06	70.29	72.69	75.16	62.88	57.52	48.23	37.47	16.42	-10.43
3549.3	78.4	77.6	70.7	65.28	72.60	75.60	74.40	68.07	61.10	53.70	43.75	28.07	-3.00
3000.0	81.2	80.0	71.7	68.07	75.61	77.78	76.80	70.89	63.60	57.55	48.63	33.45	7.67
2615.9	84.1	82.8	73.7	69.10	77.03	79.34	78.53	73.05	66.40	60.14	51.98	38.46	14.51
2333.6	86.9	85.3	75.6	69.48	77.63	80.30	82.07	77.35	69.84	62.83	54.22	42.83	22.03
2121.3	88.2	86.6	76.4	69.32	77.61	80.07	82.73	79.15	72.35	64.82	57.63	46.10	26.01
1958.1	89.6	87.9	77.2	69.60	77.82	81.36	83.26	80.08	73.07	65.53	58.67	48.78	30.45
1831.2	90.3	88.4	77.3	69.10	77.16	81.52	83.12	81.02	75.61	68.56	61.92	51.95	34.58
1732.1	90.5	88.4	77.1	69.66	77.68	81.35	82.57	80.40	75.70	68.65	63.23	53.24	37.05
1655.1	90.6	88.3	76.0	69.06	77.35	80.82	82.19	80.04	75.02	68.29	64.02	54.36	38.73
1596.3	90.4	88.2	76.6	69.16	77.66	80.81	81.08	80.71	76.50	70.41	64.26	54.45	38.66
1557.0	90.1	87.7	76.2	69.63	77.61	80.81	81.39	80.17	76.94	70.14	64.07	54.82	39.97
1523.1	90.2	87.7	76.3	69.76	77.11	80.47	81.31	79.99	76.28	70.67	64.56	55.43	40.81
1504.7	90.3	87.6	76.1	69.70	77.65	80.23	80.40	79.72	76.41	71.39	64.41	56.35	41.87
1488.4	90.0	87.1	75.6	69.16	77.62	80.32	79.70	79.29	76.13	71.43	65.46	56.43	41.89
1474.7	90.0	86.9	75.6	69.48	77.60	80.77	79.15	79.28	76.50	70.40	64.42	56.40	40.36
1453.1	90.6	87.2	75.0	69.12	77.64	80.02	79.70	79.21	76.14	70.34	64.34	56.31	40.54
1432.0	90.1	86.4	74.8	69.25	77.61	79.62	79.28	77.63	74.42	69.40	63.53	54.98	39.64
1414.3	87.1	84.4	73.8	69.65	77.74	79.37	78.46	76.66	74.47	69.66	62.49	53.07	37.89
1399.1	85.5	82.8	71.1	69.76	77.13	78.01	76.62	75.02	73.02	67.72	61.45	51.70	34.17

WIND NUMBER	334.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	-0.500
PRIMARY TEMPERATURE (IN)	575.000
SECONDARY TEMPERATURE (IN)	577.000
PRIMARY PRESSURE RATIO	1.560
AREA RATIO	4.856
VELOCITY RATIO	1.827
PRIMARY VELOCITY (FT/SEC)	871.584
MASS FLOW RATIO	3.379
PRIMARY MASS FLOW (LBS/SEC)	54.080
THRUST (LBS)	520.000
ENVIRONMENTAL TEMPERATURE (IN)	79.690
ENVIRONMENTAL PRESSURE (IN.HG)	70.500
ENVIRONMENTAL HUMIDITY (PER CENT)	70.500
CALIBRATION FACTOR (INCH TO DIFF. IN)	0.001
INSTRUMENTATION NOISE FLOOR (DB)	61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, CALCULATED FOR THRUST	
OVERALL	2.99864E+00	134.8	THRUST	POWER LEVEL (DB)
500	6.73808E-02	118.3	10000	157.4
1000	3.16126E-01	125.0	20000	160.5
2000	7.14623E-01	128.5	40000	163.3
4000	7.24807E-01	128.6	80000	166.5
6000	6.29506E-01	128.0		
10000	3.70115E-01	125.7		
31500	1.76001E-01	122.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
		1000	2000	4000	6000	10000	31500
							ALL
15.0	94.4	102.0	102.0	99.1	99.8	99.9	99.5
20.0	97.2	103.1	104.4	100.1	99.8	91.4	96.2
25.0	95.9	102.9	105.2	101.7	97.5	92.4	95.1
30.0	94.7	102.4	105.3	102.3	98.7	94.2	90.8
35.0	92.4	100.5	104.4	103.1	99.7	93.2	90.8
40.0	90.4	98.2	102.9	102.7	100.0	95.9	92.0
45.0	88.7	96.6	100.9	102.0	101.0	97.0	93.2
50.0	87.3	94.8	99.3	100.8	100.0	94.9	93.4
55.0	86.0	92.9	97.6	99.0	99.0	97.2	93.0
60.0	84.8	91.9	97.3	99.0	99.3	97.0	93.4
65.0	83.5	91.7	96.9	98.0	99.7	96.9	93.4
70.0	83.5	91.4	95.9	98.1	98.6	96.6	93.7
75.0	83.0	91.0	95.0	97.8	97.8	96.2	93.7
80.0	82.1	91.0	94.9	97.4	97.8	96.2	93.2
85.0	81.2	90.0	94.0	97.2	97.5	95.7	92.9
90.0	80.3	89.0	94.8	96.9	97.4	95.5	93.0
95.0	79.7	88.2	94.0	96.7	97.9	95.7	92.7
100.0	78.8	88.8	94.8	96.2	97.6	96.0	93.3
105.0	78.1	87.7	92.7	96.9	97.7	96.9	92.9
110.0	81.0	88.8	92.7	96.1	97.4	96.6	93.2
115.0	80.0	89.0	91.0	96.2	96.7	96.9	93.3

MODEL THRUST = 50.000 FULL SCALE THRUST = 20000.000

LT	PROB.	OASPL	20.0	50.0	100.0	200.0	400.0	800.0	1600.0	3200.0	6400.0	12800.0	25600.0
8709.6	75.31	75.31	77.0	67.07	73.07	73.34	66.33	61.00	54.02	40.77	10.01	-10.65	-66.46
4385.7	60.00	60.01	61.5	70.50	70.60	77.65	72.80	67.93	60.24	48.49	31.28	1.10	-49.07
3549.2	64.31	63.01	63.0	71.11	70.12	80.29	76.46	71.33	63.00	54.36	39.07	14.01	-27.84
3000.0	66.00	66.01	65.5	71.30	70.00	81.40	78.24	74.24	67.17	59.00	40.35	24.70	-11.18
2615.2	68.01	68.01	66.2	70.33	70.30	82.21	80.70	76.57	70.60	62.11	50.64	31.46	-2.26
2333.4	69.01	69.01	66.5	69.80	77.00	81.71	81.30	77.02	72.30	66.99	50.63	38.99	0.20
2121.3	71.01	69.01	66.3	68.44	75.03	80.45	81.44	78.88	74.40	67.51	57.64	41.51	15.23
1904.1	71.01	69.01	65.0	67.80	74.83	79.67	80.97	78.63	75.25	68.81	59.47	48.35	19.86
1821.2	71.01	69.01	65.0	67.41	73.53	78.68	80.38	78.66	76.24	70.16	61.21	46.88	23.78
1732.1	71.01	69.01	65.7	67.66	73.39	78.70	80.20	78.15	76.43	70.51	61.98	48.18	26.17
1656.1	71.01	69.01	65.0	68.12	73.99	78.67	80.25	80.74	77.80	71.10	62.74	44.50	28.33
1590.5	71.01	69.01	65.0	67.80	73.42	79.45	80.12	79.04	77.31	71.80	62.04	48.76	30.24
1527.9	71.01	69.01	65.4	68.26	73.41	77.44	79.00	78.76	77.60	72.21	64.10	51.48	31.43
1473.1	71.01	69.01	64.4	67.77	73.43	77.45	79.04	79.77	78.63	73.20	65.07	51.54	31.83
1405.7	71.01	69.01	65.2	68.76	72.69	77.44	79.70	78.56	76.91	71.70	63.01	51.59	32.07
1380.4	71.01	69.01	65.1	68.44	72.71	77.41	79.67	78.57	76.60	71.44	63.11	51.82	32.36
1364.7	71.01	69.01	64.0	65.83	71.84	76.42	78.62	78.74	76.81	71.79	63.01	51.59	32.07
1323.2	71.01	69.01	64.7	65.30	71.82	76.45	78.64	78.64	76.90	72.03	64.10	51.47	31.40
1272.0	71.01	69.01	64.4	64.54	70.14	75.75	78.61	78.68	76.45	71.33	63.30	50.40	30.65
1204.1	70.71	68.71	64.0	63.71	68.74	75.77	78.61	78.03	77.14	71.31	62.10	50.26	29.74
1059.1	69.01	67.01	63.0	62.51	67.72	74.30	76.40	77.05	76.54	74.07	62.01	44.37	28.81

MIN NUMBER	= 339.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.500
PRIMARY TEMPERATURE (°F)	= 537.000
SECONDARY TEMPERATURE (°F)	= 537.000
PRIMARY PRESSURE RATIO	= 1.322
AREA RATIO	= 4.856
VELOCITY RATIO	= 1.472
PRIMARY VELOCITY (FT/SEC)	= 705.061
MASS FLOW RATIO	= 4.785
PRIMARY MASS FLOW (LB/SEC)	= .317
THRUST (LBS)	= 72.500
ENVIRONMENTAL TEMPERATURE (°F)	= 518.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	= 72.000
CALIBRATION FACTOR (IN. TO 0.750 CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	8.2330E+00	139.2	THRUST	POWER LEVEL (DB)
500	1.99421E-01	123.0	10000	100.0
1000	1.70403E+00	130.2	20000	103.0
2000	2.14049E+00	133.3	40000	106.0
4000	1.87908E+00	132.7	80000	109.0
8000	1.58355E+00	132.0		
16000	9.50007E-01	129.0		
31500	4.39678E-01	126.0		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 10000	31500	OVER ALL
15.0	102.0	107.7	107.0	103.0	98.0	94.1	89.9	110.2
20.0	102.1	108.9	109.0	105.1	100.6	95.3	90.1	113.0
25.0	102.0	109.3	110.0	108.3	101.9	96.1	91.3	116.2
30.0	99.0	107.5	110.2	107.0	103.3	98.1	93.3	114.0
35.0	97.2	106.2	109.0	107.0	104.0	99.3	95.0	113.0
40.0	94.0	103.9	108.2	107.0	105.0	100.7	96.1	113.1
45.0	92.9	101.3	105.0	105.0	103.3	101.7	97.0	111.7
50.0	91.3	98.6	103.4	103.2	100.7	101.0	97.0	110.0
55.0	90.0	97.0	101.0	100.0	100.0	101.0	98.0	109.0
60.0	90.0	96.3	101.2	103.2	103.0	101.2	97.0	109.1
65.0	90.0	96.0	100.0	100.0	100.0	100.0	97.0	108.0
70.0	90.0	95.0	100.0	101.0	102.3	100.2	97.0	108.0
75.0	90.0	94.0	99.0	101.0	101.3	100.3	96.1	107.0
80.0	89.0	93.1	99.3	101.0	101.0	100.4	97.0	107.0
85.0	89.0	92.0	98.0	100.0	100.0	99.0	97.0	106.0
90.0	89.0	91.0	98.3	100.1	101.1	99.0	96.0	106.0
95.0	89.0	90.0	97.0	99.0	100.7	99.0	96.0	105.0
100.0	89.0	90.0	97.0	99.0	100.0	99.0	96.0	105.0
105.0	89.0	90.0	97.0	99.0	100.0	99.0	96.0	105.0
110.0	89.0	90.0	97.0	99.0	100.0	99.0	96.0	105.0
115.0	89.0	90.0	97.0	99.0	100.0	99.0	96.0	105.0
120.0	89.0	90.0	97.0	99.0	100.0	99.0	96.0	105.0

MODEL THRUST = 72.500 FULL SCALE THRUST = 20000.000

ANGLE	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	OVER
	500	1000	2000	4000	6000	10000	31500	OVER
15.0	102.0	107.7	107.0	103.0	98.0	94.1	89.9	110.2
20.0	102.1	108.9	109.0	105.1	100.6	95.3	90.1	113.0
25.0	102.0	109.3	110.0	108.3	101.9	96.1	91.3	116.2
30.0	99.0	107.5	110.2	107.0	103.3	98.1	93.3	114.0
35.0	97.2	106.2	109.0	107.0	104.0	99.3	95.0	113.0
40.0	94.0	103.9	108.2	107.0	105.0	100.7	96.1	113.1
45.0	92.9	101.3	105.0	105.0	103.3	101.7	97.0	111.7
50.0	91.3	98.6	103.4	103.2	100.7	101.0	97.0	110.0
55.0	90.0	97.0	101.0	100.0	100.0	101.0	98.0	109.0
60.0	90.0	96.3	101.2	103.2	103.0	101.2	97.0	109.1
65.0	90.0	96.0	100.0	100.0	100.0	100.0	97.0	108.0
70.0	90.0	95.0	100.0	101.0	102.3	100.2	97.0	108.0
75.0	90.0	94.0	99.0	101.0	101.3	100.3	96.1	107.0
80.0	89.0	93.1	99.3	101.0	101.0	100.4	97.0	107.0
85.0	89.0	92.0	98.0	100.0	100.0	99.0	97.0	106.0
90.0	89.0	91.0	98.3	100.1	101.1	99.0	96.0	106.0
95.0	89.0	90.0	97.0	99.0	100.7	99.0	96.0	105.0
100.0	89.0	90.0	97.0	99.0	100.0	99.0	96.0	105.0
105.0	89.0	90.0	97.0	99.0	100.0	99.0	96.0	105.0
110.0	89.0	90.0	97.0	99.0	100.0	99.0	96.0	105.0
115.0	89.0	90.0	97.0	99.0	100.0	99.0	96.0	105.0
120.0	89.0	90.0	97.0	99.0	100.0	99.0	96.0	105.0

WIND NUMBER	436.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (IN.)	24.430
PRIMARY TEMPERATURE (IN)	435.000
SECONDARY TEMPERATURE (IN)	536.000
PRIMARY PRESSURE RATIO	2.276
AIR RATIO	9.786
VELOCITY RATIO	4.688
PRIMARY VELOCITY (FT/SEC)	1148.246
MASS FLOW RATIO	3.203
PRIMARY MASS FLOW (LBS/SEC)	3.4
THRUST (LBS)	27.500
ENVIRONMENTAL TEMPERATURE (IN)	519.040
ENVIRONMENTAL PRESSURE (IN.HG)	29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	67.043
CALIBRATION FACTOR FOR OY750 C41	1.025
INSTRUMENTATION NOISE FLOOR (DB)	57.667

Reproduced from
best available copy.



ACOUSTIC POWER AND SOUND POWER LEVEL FOR POUND JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	1.44672E+00	131.6	THRUST POWER LEVEL (DB)
500	1.42518E-02	111.5	10000 157.2
1000	9.50807E-02	119.9	20000 160.2
2000	4.47969E-01	126.5	30000 163.2
4000	4.71687E-01	126.8	40000 164.2
6000	2.86300E-01	124.6	
10000	1.12590E-01	120.9	
31500	6.18463E-02	117.9	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	SOUND PRESSURE LEVELS 2000	4000	6000	10000	OVERALL
15.0	89.3	90.1	90.6	90.4	90.6	90.6	90.1
20.0	89.3	90.0	90.7	91.0	90.2	91.0	90.7
25.0	89.3	90.0	90.6	90.2	90.7	90.3	90.7
30.0	88.5	89.8	90.0	90.7	90.2	90.7	90.5
35.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
40.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
45.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
50.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
55.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
60.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
65.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
70.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
75.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
80.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
85.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
90.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
95.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
100.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
105.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
110.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
115.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
120.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
125.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
130.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
135.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
140.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
145.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
150.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0

MODEL THRUST = 27.500 FULL SCALE THRUST = 20000.000

ANGLE (DEG)	500	OCTAVE BAND 1000	SOUND PRESSURE LEVELS 2000	4000	6000	10000	OVERALL
15.0	89.3	90.1	90.6	90.4	90.6	90.6	90.1
20.0	89.3	90.0	90.7	91.0	90.2	91.0	90.7
25.0	89.3	90.0	90.6	90.2	90.7	90.3	90.7
30.0	88.5	89.8	90.0	90.7	90.2	90.7	90.5
35.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
40.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
45.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
50.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
55.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
60.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
65.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
70.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
75.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
80.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
85.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
90.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
95.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
100.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
105.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
110.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
115.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
120.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
125.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
130.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
135.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
140.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
145.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0
150.0	89.0	90.0	90.0	90.0	90.0	90.0	90.0

MIN NUMBER	0	337,000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INCH)	0	0.000
PRIMARY TEMPERATURE (IN)	0	0.000
SECONDARY TEMPERATURE (IN)	0	0.000
PRIMARY PRESSURE RATIO	0	1.000
AREA RATIO	0	0.724
VELOCITY RATIO	0	0.945
PRIMARY VELOCITY (FT/SEC)	0	904.047
SECONDARY VELOCITY (FT/SEC)	0	873.33
PRIMARY MASS FLOW (LB/SEC)	0	0.350
THRUST (LBS)	0	84.000
ENVIRONMENTAL TEMPERATURE (IN)	0	0.000
ENVIRONMENTAL PRESSURE (IN.HG)	0	29.920
ENVIRONMENTAL HUMIDITY (PER CENT)	0	67.000
CALCULATION FACTOR (1/10 TO 1/1000 CM)	0	0.005
INSTRUMENTATION NOISE FLOOR (DB)	0	62.545

Reproduced from
best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR WHEEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	3.07490E+00	134.9	THRUST POWER LEVEL (DB)
500	1.01290E-01	122.1	10000 155.0
1000	3.00470E-01	127.0	20000 158.0
2000	8.19817E-01	129.1	40000 161.7
4000	6.74501E-01	127.0	80000 164.7
8000	5.08207E-01	127.1	
16000	2.50350E-01	124.1	
31500	1.04032E-01	120.2	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	300	OCTAVE BAND	SOUND PRESSURE LEVEL	OVERALL
0.0	103.0	103.0	103.0	103.0
10.0	101.1	102.0	101.1	101.1
20.0	99.0	100.0	99.0	99.0
30.0	97.0	98.0	97.0	97.0
40.0	95.0	96.0	95.0	95.0
50.0	93.0	94.0	93.0	93.0
60.0	91.0	92.0	91.0	91.0
70.0	89.0	90.0	89.0	89.0
80.0	87.0	88.0	87.0	87.0
90.0	85.0	86.0	85.0	85.0
100.0	83.0	84.0	83.0	83.0
110.0	81.0	82.0	81.0	81.0
120.0	79.0	80.0	79.0	79.0
130.0	77.0	78.0	77.0	77.0
140.0	75.0	76.0	75.0	75.0
150.0	73.0	74.0	73.0	73.0
160.0	71.0	72.0	71.0	71.0
170.0	69.0	70.0	69.0	69.0
180.0	67.0	68.0	67.0	67.0
190.0	65.0	66.0	65.0	65.0
200.0	63.0	64.0	63.0	63.0
210.0	61.0	62.0	61.0	61.0
220.0	59.0	60.0	59.0	59.0
230.0	57.0	58.0	57.0	57.0
240.0	55.0	56.0	55.0	55.0
250.0	53.0	54.0	53.0	53.0
260.0	51.0	52.0	51.0	51.0
270.0	49.0	50.0	49.0	49.0
280.0	47.0	48.0	47.0	47.0
290.0	45.0	46.0	45.0	45.0
300.0	43.0	44.0	43.0	43.0

MODEL THRUST = 00.000 FULL SCALE THRUST = 20000.000

ANGLE	300	OCTAVE	SOUND	PRESSURE	LEVEL	OVERALL
0.0	103.0	103.0	103.0	103.0	103.0	103.0
10.0	101.1	102.0	101.1	101.1	101.1	101.1
20.0	99.0	100.0	99.0	99.0	99.0	99.0
30.0	97.0	98.0	97.0	97.0	97.0	97.0
40.0	95.0	96.0	95.0	95.0	95.0	95.0
50.0	93.0	94.0	93.0	93.0	93.0	93.0
60.0	91.0	92.0	91.0	91.0	91.0	91.0
70.0	89.0	90.0	89.0	89.0	89.0	89.0
80.0	87.0	88.0	87.0	87.0	87.0	87.0
90.0	85.0	86.0	85.0	85.0	85.0	85.0
100.0	83.0	84.0	83.0	83.0	83.0	83.0
110.0	81.0	82.0	81.0	81.0	81.0	81.0
120.0	79.0	80.0	79.0	79.0	79.0	79.0
130.0	77.0	78.0	77.0	77.0	77.0	77.0
140.0	75.0	76.0	75.0	75.0	75.0	75.0
150.0	73.0	74.0	73.0	73.0	73.0	73.0
160.0	71.0	72.0	71.0	71.0	71.0	71.0
170.0	69.0	70.0	69.0	69.0	69.0	69.0
180.0	67.0	68.0	67.0	67.0	67.0	67.0
190.0	65.0	66.0	65.0	65.0	65.0	65.0
200.0	63.0	64.0	63.0	63.0	63.0	63.0
210.0	61.0	62.0	61.0	61.0	61.0	61.0
220.0	59.0	60.0	59.0	59.0	59.0	59.0
230.0	57.0	58.0	57.0	57.0	57.0	57.0
240.0	55.0	56.0	55.0	55.0	55.0	55.0
250.0	53.0	54.0	53.0	53.0	53.0	53.0
260.0	51.0	52.0	51.0	51.0	51.0	51.0
270.0	49.0	50.0	49.0	49.0	49.0	49.0
280.0	47.0	48.0	47.0	47.0	47.0	47.0
290.0	45.0	46.0	45.0	45.0	45.0	45.0
300.0	43.0	44.0	43.0	43.0	43.0	43.0

MIN NUMBER = 334,000
 AXIAL POSITION OF PRIMARY NOISE SECONDARY (INS) = 4.500
 PRIMARY TEMPERATURE (IN) = 537.000
 SECONDARY TEMPERATURE (IN) = 534.000
 PRIMARY PRESSURE RATIO = 1.322
 AREA RATIO = 0.744
 VELOCITY RATIO = 1.474
 PRIMARY VELOCITY (FT/SEC) = 765.061
 MASS FLOW RATIO = 0.053
 PRIMARY MASS FLOW (LBS/SEC) = 314
 THRUST (LBS) = 114.000
 ENVIRONMENTAL TEMPERATURE (IN) = 521.000
 ENVIRONMENTAL PRESSURE (IN.MER) = 29.920
 ENVIRONMENTAL HUMIDITY (PER CENT) = 83.000
 CALIBRATION FACTOR (IN TO DB) = 0.000
 INSTRUMENTATION NOISE FLOOR (DB) = 48.587

Reproduced from
 best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.09684E-01	140.0	THRUST	POWER LEVEL (DB)
500	5.09567E-01	127.1	10000	159.6
1000	1.47271E-00	133.6	20000	162.7
2000	2.85624E-00	136.6	40000	165.7
4000	2.35973E-00	133.7	80000	168.7
8000	1.85533E-00	132.7		
16000	1.01300E-00	130.1		
31500	4.12008E-01	126.1		

EXPERIMENTAL DATA
 TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVERALL
10.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
20.0	100.3	110.0	110.0	105.1	99.2	95.4	89.3	110.0
30.0	100.0	110.0	110.0	105.0	99.0	95.0	89.0	110.0
40.0	100.0	110.0	110.0	105.0	99.0	95.0	89.0	110.0
50.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
60.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
70.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
80.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
90.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
100.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
110.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
120.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
130.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
140.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
150.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
160.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
170.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
180.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0

MODEL THRUST = 110.000 FULL SCALE THRUST = 20000.000

ANGLE	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVERALL
10.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
20.0	100.3	110.0	110.0	105.1	99.2	95.4	89.3	110.0
30.0	100.0	110.0	110.0	105.0	99.0	95.0	89.0	110.0
40.0	100.0	110.0	110.0	105.0	99.0	95.0	89.0	110.0
50.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
60.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
70.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
80.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
90.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
100.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
110.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
120.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
130.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
140.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
150.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
160.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
170.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0
180.0	100.0	110.0	105.0	102.1	99.0	95.0	89.0	110.0

RUN NUMBER	0	300.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INCH)	0	0.000
PRIMARY TEMPERATURE (°F)	0	836.000
SECONDARY TEMPERATURE (°F)	0	536.000
PRIMARY PRESSURE (PSI)	0	3.000
AREA (SQ IN)	0	1.000
VELOCITY (FT/SEC)	0	137.750
PRIMARY VELOCITY (FT/SEC)	0	137.750
MASS FLOW (LBS/SEC)	0	0.000
PRIMARY MASS FLOW (LBS/SEC)	0	0.000
THRUST (LBS)	0	17.000
ENVIRONMENTAL TEMPERATURE (°F)	0	521.000
ENVIRONMENTAL PRESSURE (IN. HG)	0	29.920
ENVIRONMENTAL HUMIDITY (PER CENT)	0	73.000
CALCULATION FACTOR (IN. TO OYDIN)	0	0.000
INSTRUMENTATION NOISE FLOOR (DB)	0	63.550

Reproduced from
best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	5.29339E+00	137.2	10000	166.0
500	1.00031E-02	112.0	20000	167.0
1000	1.21830E-01	120.0	40000	171.0
2000	6.53482E-01	128.2	80000	176.0
4000	2.73485E+00	133.5		
8000	1.54407E+00	131.9		
16000	5.24390E-01	127.2		
31500	1.76694E-01	122.5		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	86.0	86.0	100.0	100.0	99.0	94.0	84.0	100.0
20.0	86.7	86.0	100.0	100.0	99.0	93.0	84.0	100.0
25.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
30.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
35.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
40.0	86.7	86.7	100.0	100.0	99.0	93.0	84.0	100.0
45.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
50.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
55.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
60.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
65.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
70.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
75.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
80.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
85.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
90.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
95.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
100.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
105.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
110.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
115.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
120.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0

MODEL THRUST = 17.000 FULL SCALE THRUST = 20000.000

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	86.0	86.0	100.0	100.0	99.0	94.0	84.0	100.0
20.0	86.7	86.0	100.0	100.0	99.0	93.0	84.0	100.0
25.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
30.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
35.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
40.0	86.7	86.7	100.0	100.0	99.0	93.0	84.0	100.0
45.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
50.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
55.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
60.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
65.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
70.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
75.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
80.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
85.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
90.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
95.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
100.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
105.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
110.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
115.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0
120.0	86.0	86.0	100.0	100.0	99.0	93.0	84.0	100.0

RUN NUMBER	141.00 (763.00)
AXIAL POSITION OF PRIMARY ENT. SECONDARY (INS.)	48.000
PRIMARY TEMPERATURE (°F)	507.000
SECONDARY TEMPERATURE (°F)	574.000
PRIMARY PRESSURE (PSI)	1.000
AREA RATIO	1.000
VELOCITY WATER	1.000
PRIMARY VELOCITY (FT/SEC)	1.011
MASS FLOW WATER	102.4210
PRIMARY MASS FLOW (LB/SEC)	1.111
THRUST (LBS)	423
ENVIRONMENTAL TEMPERATURE (°F)	70.000
ENVIRONMENTAL PRESSURE (IN.HG)	521.000
ENVIRONMENTAL HUMIDITY (PER CENT)	24.810
CALIBRATION FACTOR 141 TO 07730 CHT	73.000
INSTRUMENTATION NOISE FLOOR (DB)	65.540

Reproduced from
best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	4.64638E+00	130.7	THRUST POWER LEVEL (DB)
500	1.54449E-01	121.9	10000 107.9
1000	6.00038E-01	124.9	20000 105.0
2000	1.00018E+00	130.0	40000 100.0
4000	1.00033E+00	130.2	80000 171.0
8000	0.75752E-01	129.0	
16000	0.73142E-01	127.0	
31000	0.67500E-01	126.0	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (°)	500	OCTAVE BAND	SOUND PRESSURE LEVEL	OVER
	1000	2000	3000	4000
10.0	100.0	100.0	100.0	100.0
20.0	100.0	100.0	100.0	100.0
30.0	100.0	100.0	100.0	100.0
40.0	100.0	100.0	100.0	100.0
50.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0
70.0	100.0	100.0	100.0	100.0
80.0	100.0	100.0	100.0	100.0
90.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0
110.0	100.0	100.0	100.0	100.0
120.0	100.0	100.0	100.0	100.0
130.0	100.0	100.0	100.0	100.0
140.0	100.0	100.0	100.0	100.0
150.0	100.0	100.0	100.0	100.0

MODEL THRUST = 30.000 FULL SCALE THRUST = 20000.000

ANGLE (°)	500	OCTAVE BAND	SOUND PRESSURE LEVEL	OVER
	1000	2000	3000	4000
10.0	100.0	100.0	100.0	100.0
20.0	100.0	100.0	100.0	100.0
30.0	100.0	100.0	100.0	100.0
40.0	100.0	100.0	100.0	100.0
50.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0
70.0	100.0	100.0	100.0	100.0
80.0	100.0	100.0	100.0	100.0
90.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0
110.0	100.0	100.0	100.0	100.0
120.0	100.0	100.0	100.0	100.0
130.0	100.0	100.0	100.0	100.0
140.0	100.0	100.0	100.0	100.0
150.0	100.0	100.0	100.0	100.0

WIND NUMBER	343,000
AXIAL POSITION OF PRIMARY WPT, SECONDARY (INCH)	4.400
PRIMARY TEMPERATURE (°F)	480,000
SECONDARY TEMPERATURE (°F)	530,000
PRIMARY PRESSURE RATIO	2.000
AREA RATIO	2.007
VELOCITY RATIO	1.845
PRIMARY VELOCITY (FT/SEC)	1113.500
MASS FLOW RATIO	1.431
PRIMARY MASS FLOW (LH/SEC)	4.423
THRUST (LBS)	31,000
ENVIRONMENTAL TEMPERATURE (°F)	522,000
ENVIRONMENTAL PRESSURE (IN.HG)	29.810
ENVIRONMENTAL HUMIDITY (PER CENT)	60,000
CALCULATION FACTOR (WV TO 11730 C)	1.050
INSTRUMENTATION NOISE FLOOR (DB)	64,590

Reproduced from
best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JLT

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.04505E+00	137.0	THRUST	POWER LEVEL (DB)
500	4.03090E-02	115.1	10000	182.1
1000	2.70010E-01	124.3	20000	185.1
2000	1.02057E+00	130.1	40000	188.1
4000	1.22130E+00	131.1	80000	171.1
8000	1.22130E+00	130.9		
16000	6.01000E-01	124.0		
31500	3.84990E-01	125.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
20.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
25.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
30.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
35.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
40.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
45.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
50.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
55.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
60.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
65.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
70.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
75.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
80.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
85.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
90.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
95.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
100.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
105.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
110.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6
115.0	94.6	103.1	107.5	105.5	102.4	98.1	95.6	111.6

MODEL THRUST = 31,000 FULL SCALE THRUST = 20000,000

LT	PROBT	ORSP	10.7	39.4	70.7	157.5	315.0	629.9	1240.2	2480.3	4921.3	9842.5	19685.0
8795.6	92.11	81.61	83.0	68.20	76.12	79.47	76.66	72.00	64.65	54.76	37.76	6.94	-47.41 -135.35
4385.7	87.91	66.91	66.9	78.44	78.87	83.19	80.92	77.00	70.83	63.80	50.21	26.18	-15.71 -82.98
3549.3	86.71	69.71	69.2	71.01	79.99	85.20	83.73	80.28	75.38	68.43	56.85	36.82	2.37 -52.63
3000.0	82.91	61.71	60.5	71.89	76.95	85.70	83.03	82.83	77.82	70.39	59.19	42.75	13.10 -33.88
2615.2	85.41	63.91	61.7	78.00	79.20	85.66	86.93	85.69	81.10	74.02	64.71	49.15	22.00 -10.35
2033.0	80.61	60.11	61.9	64.29	70.97	84.89	80.29	89.71	82.00	75.96	66.93	52.73	27.89 -40.75
2121.3	86.61	64.51	61.6	68.63	77.42	84.06	86.44	86.22	83.11	76.67	68.55	55.36	33.87 -5.52
1958.1	86.10	64.31	61.3	67.99	76.93	83.86	85.69	85.80	83.41	78.10	70.37	57.97	37.61 -5.92
1831.2	86.81	64.41	61.2	67.37	76.42	82.93	85.41	86.06	83.66	78.52	71.09	59.34	40.00 -10.24
1732.1	86.41	63.81	60.6	68.01	76.18	82.75	84.60	85.06	83.23	78.17	71.99	60.68	42.33 -13.93
1659.1	88.01	63.31	60.2	68.56	75.99	82.50	84.28	84.70	82.83	78.07	71.08	56.13	42.46 -15.21
1596.7	84.41	63.21	60.1	69.08	79.00	82.03	82.93	84.03	82.43	78.08	71.21	60.84	43.80 -17.01
1559.9	80.61	62.91	60.0	68.65	76.04	81.75	84.05	84.27	82.43	77.59	70.84	60.38	43.62 -17.66
1589.1	84.41	64.51	60.4	68.33	76.04	81.10	83.67	83.72	82.30	78.08	71.40	61.09	44.59 -19.27
1505.7	84.11	62.31	60.1	67.91	75.43	81.01	83.08	83.66	81.71	77.44	70.81	60.88	44.24 -19.17
1500.0	84.91	62.01	60.0	67.95	75.06	80.80	82.37	83.41	81.47	77.43	71.01	60.81	44.52 -19.53
1505.7	84.21	61.51	60.4	67.37	74.63	80.36	82.11	83.04	81.01	76.36	69.72	59.49	43.15 -18.69
1571.7	83.91	61.11	60.1	66.66	73.49	79.46	82.01	82.99	80.89	76.39	69.71	59.40	42.40 -17.58
1542.9	81.31	60.91	60.1	65.66	72.29	78.43	81.24	81.94	80.41	76.25	69.50	59.04	42.20 -16.53
1546.1	82.81	60.91	60.7	64.73	70.67	77.21	80.54	81.56	80.19	75.28	69.41	57.75	40.60 -14.21
1655.1	81.41	60.71	60.6	67.69	69.34	75.34	78.40	80.12	79.67	74.67	67.67	64.73	39.66 -11.61

RUN NUMBER	344.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-8.500
PRIMARY TEMPERATURE (IN)	530.000
SECONDARY TEMPERATURE (IN)	537.000
PRIMARY PRESSURE RATIO	1.851
AREA RATIO	2.887
VELOCITY RATIO	1.013
PRIMARY VELOCITY (FT/SEC)	1824.260
MASS FLOW RATIO	1.683
PRIMARY MASS FLOW (LB/SEC)	.427
THRUST (LBS)	36.900
ENVIRONMENTAL TEMPERATURE (R)	522.800
ENVIRONMENTAL PRESSURE (IN.HG)	29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	69.000
CALIBRATION FACTOR (IN. TO OY/50 CM)	.071
INSTRUMENTATION NOISE FLOOR (DB)	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	7.54947E+00	136.8	THRUST	POWER LEVEL (DB)
500	5.84694E-02	117.7	10000	163.2
1000	3.85223E-01	125.9	20000	164.2
2000	1.40737E+00	131.3	40000	169.2
4000	1.73027E+00	132.4	80000	172.2
8000	1.88932E+00	132.6		
16000	1.43021E+00	131.6		
31500	7.21997E-01	128.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	97.1	103.2	107.0	108.0	102.8	99.3	94.8	112.1
20.0	95.9	104.0	108.4	106.9	104.2	100.4	96.2	112.9
25.0	95.2	103.0	109.0	108.2	105.7	102.2	98.0	113.7
30.0	93.5	102.2	108.2	108.3	106.5	103.2	98.9	113.5
35.0	90.9	100.4	107.2	108.0	107.1	104.0	100.4	113.3
40.0	89.0	98.2	105.3	107.2	107.0	104.4	100.7	112.6
45.0	87.1	96.3	103.5	105.0	106.5	103.1	101.4	111.9
50.0	86.7	95.1	102.0	104.0	105.3	104.7	102.2	111.0
55.0	85.0	94.2	100.7	102.0	104.1	103.5	100.7	109.7
60.0	84.1	93.6	100.5	101.7	103.2	102.7	100.7	109.0
65.0	82.8	93.2	99.5	101.2	102.3	101.7	99.3	108.1
70.0	86.3	93.8	98.8	100.7	101.9	101.3	99.3	107.7
75.0	85.0	92.7	97.9	100.1	101.0	100.8	98.5	107.0
80.0	85.2	92.2	97.6	99.7	100.5	100.2	97.5	106.5
85.0	84.6	91.9	97.2	99.2	100.4	100.0	98.8	106.0
90.0	84.3	91.3	97.1	99.0	100.1	100.0	98.0	105.8
95.0	83.7	91.0	96.7	98.2	100.2	100.0	97.9	105.1
100.0	82.8	90.1	96.0	98.0	99.8	100.6	97.8	105.9
105.0	82.7	89.0	95.2	97.8	99.9	100.8	97.3	105.6
110.0	81.4	87.3	94.1	97.1	99.4	100.5	96.9	105.2
115.0	81.1	86.0	92.8	96.2	99.0	101.2	96.5	105.1

MODEL THRUST = 361500 FULL SCALE THRUST = 20000.000

LT	PNDB	OASPL	OCTAVE 21.4	BAND 42.7	SOUND 85.4	PRESSURE 170.9	LEVELS 341.8	683.5	1345.7	2691.4	5340.0	10680.0	21360.0
8795.0	84.11 (83.7)	84.2	89.74	77.00	80.11	77.76	73.79	67.38	56.89	37.72	4.69	-53.18	-145.60
4385.7	88.51 (87.8)	87.4	71.01	79.66	83.39	81.62	78.67	72.07	62.68	48.12	22.39	-22.06	-92.79
3949.3	92.21 (91.3)	90.1	72.18	80.50	85.80	84.76	81.82	78.32	67.90	55.55	34.15	-2.40	-60.21
3000.0	94.51 (93.4)	91.4	71.88	80.56	86.51	86.42	84.08	79.21	71.38	60.47	41.92	10.56	-38.76
2615.2	96.41 (95.0)	92.3	70.51	79.96	86.72	87.38	85.91	81.54	74.84	64.94	48.39	20.67	-22.72
2333.6	97.31 (95.8)	92.5	70.17	78.76	85.79	87.61	86.90	83.13	76.72	67.57	52.48	27.42	-11.62
2121.3	98.01 (96.1)	92.5	68.54	77.71	84.60	86.82	87.34	84.78	78.65	70.06	56.07	33.02	-2.74
1958.1	98.21 (96.0)	92.2	68.01	77.18	84.07	85.90	86.05	85.24	80.47	72.30	59.16	37.65	4.41
1831.2	97.61 (95.8)	91.5	68.50	78.91	83.34	85.12	85.25	84.69	79.77	71.95	59.46	39.15	7.87
1732.1	97.61 (95.2)	91.4	69.29	76.74	83.59	84.76	85.84	84.52	80.41	72.84	60.46	41.49	11.74
1655.1	97.21 (94.7)	91.0	69.53	76.71	82.99	84.63	85.43	83.93	79.61	72.24	60.67	42.82	13.46
1594.3	97.31 (94.7)	90.9	70.15	76.88	82.66	84.46	85.34	83.93	79.98	72.77	61.50	43.41	15.76
1552.9	98.01 (94.2)	90.4	69.61	76.83	81.97	84.04	84.84	83.74	79.60	72.51	61.46	43.78	16.88
1523.1	96.31 (93.8)	90.1	69.44	76.45	81.81	83.83	84.39	83.23	78.79	71.77	60.88	43.48	16.96
1504.7	96.81 (94.0)	90.2	69.02	75.79	81.90	83.95	84.38	83.70	80.24	73.29	62.49	45.20	19.08
1500.0	96.31 (93.6)	89.9	68.68	75.74	81.49	83.25	84.12	83.21	79.50	72.55	61.78	44.60	14.43
1505.7	96.21 (93.6)	89.7	68.06	75.34	81.08	82.69	84.12	83.76	79.92	71.95	61.15	43.92	17.66
1523.1	96.01 (93.4)	89.4	67.11	74.37	80.27	82.17	83.67	83.69	79.06	73.04	61.15	43.75	17.23
1555.9	95.01 (93.0)	88.9	66.75	73.11	79.32	81.78	83.29	83.50	78.35	71.76	60.21	42.93	15.55
1590.3	94.91 (92.4)	88.3	65.25	71.22	77.92	80.84	82.87	83.14	77.59	70.38	59.11	41.02	13.37
1695.1	94.31 (92.6)	87.8	64.87	70.18	76.11	79.01	82.71	83.25	76.80	68.73	56.86	38.21	7.68

RUN NUMBER	= 349.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -0.500
PRIMARY TEMPERATURE (R)	= 537.000
SECONDARY TEMPERATURE (R)	= 536.000
PRIMARY PRESSURE RATIO	= 3.800
AREA RATIO	= 4.050
VELOCITY RATIO	= .371
PRIMARY VELOCITY (FT/SEC)	= 1330.902
MASS FLOW RATIO	= 1.625
PRIMARY MASS FLOW (LB/SEC)	= .425
THRUST (LBS)	= 25.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.410
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (MV TO DY/30 CM)	= .045
INSTRUMENTATION NOISE FLOOR (DB)	= 62.505

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL-JST

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	4.61990E+00	130.6	THRUST = 25.000 POWER LEVEL (DB) = 162.7
500	2.97132E-02	113.2	10000 = 165.7
1000	1.48290E-01	121.7	20000 = 166.7
2000	7.07802E-01	128.5	40000 = 171.7
4000	1.98225E+00	133.0	
8000	1.15223E+00	130.6	
16000	4.91936E-01	126.5	
31500	1.66767E-01	122.2	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	91.7	98.8	101.2	98.7	93.2	87.2	82.4	109.1
20.0	90.0	99.3	102.3	99.9	92.3	87.0	84.0	108.0
25.0	90.0	98.5	102.1	101.7	96.4	89.8	86.2	106.5
30.0	88.7	97.8	102.0	102.1	97.0	91.7	86.9	107.0
35.0	87.7	96.9	102.4	104.7	99.7	93.6	88.0	106.1
40.0	86.9	95.7	101.7	104.2	101.9	94.9	90.4	106.9
45.0	85.1	94.0	101.3	106.5	103.4	97.2	91.9	109.6
50.0	83.7	92.0	101.3	107.2	104.0	98.9	93.4	110.3
55.0	82.6	91.0	100.6	106.6	104.9	99.0	94.6	110.1
60.0	81.7	90.0	100.0	106.0	103.9	97.7	93.3	109.0
65.0	80.4	89.0	99.0	105.0	103.4	99.6	95.0	108.7
70.0	81.3	89.3	98.3	103.0	102.3	99.0	94.0	107.7
75.0	80.3	89.2	97.4	103.7	101.5	98.3	94.7	107.3
80.0	79.3	88.9	96.7	102.0	100.9	97.9	94.2	106.5
85.0	78.3	88.2	96.4	101.2	99.0	97.0	93.2	105.4
90.0	78.0	88.0	96.4	99.9	99.1	96.8	92.3	104.6
95.0	78.1	87.0	96.4	99.7	98.7	95.5	92.0	104.3
100.0	77.0	86.0	95.4	99.7	98.3	94.0	90.9	103.8
105.0	76.3	84.4	94.3	99.5	98.2	94.2	91.2	103.5
110.0	76.3	83.0	92.4	97.9	96.9	94.2	90.0	102.0
115.0	76.3	82.0	90.4	95.6	93.7	91.0	88.0	99.0

MODEL THRUST = 25.000 FULL SCALE THRUST = 20000.000

LT	PHOB	CASPL	OCTAVE 17.7	BAND 35.4	SOUND 70.7	PRESSURE 141.6	LEVELS 282.8	565.7	1113.7	2227.4	4419.4	8838.8	17677.7
-8795.0	70.41	78.91	74.1	66.04	73.12	78.37	72.61	66.29	67.94	67.76	52.31	44.21	-48.03 -127.08
4385.7	75.01	78.21	81.5	67.67	76.05	78.99	87.32	71.14	63.00	64.73	42.31	28.32	-18.38 -81.15
3549.3	84.81	83.91	84.9	69.23	77.18	88.61	88.65	74.26	66.26	59.26	48.63	36.26	-1.55 -53.00
3690.0	87.71	86.71	87.0	68.78	77.20	82.63	82.08	77.28	69.89	62.33	52.04	36.98	9.54 -34.41
2015.2	93.01	89.41	89.1	68.91	78.13	83.88	85.76	80.39	73.24	65.97	57.36	43.03	18.70 -19.90
2333.6	93.01	91.61	90.9	68.60	77.92	83.87	88.25	83.18	75.60	69.02	61.01	47.98	26.05 -0.90
2121.3	95.01	93.51	92.3	68.12	77.08	84.31	89.45	80.01	74.01	71.71	64.15	51.97	31.74 -4.21
1958.1	96.91	95.21	93.7	67.41	76.36	86.03	90.82	87.93	81.45	74.17	66.97	55.49	36.80 6.80
1831.2	97.91	96.81	94.1	66.90	75.30	84.93	90.02	88.01	83.00	76.06	69.13	58.19	48.32 12.33
1732.1	98.21	96.01	94.3	66.47	75.06	85.27	91.31	88.39	83.43	77.46	70.74	60.23	43.17 16.83
1659.7	98.01	95.71	93.0	65.86	74.06	84.21	90.11	87.22	82.02	77.04	71.13	60.06	44.74 19.43
1594.3	97.51	95.11	92.9	66.05	74.02	83.77	89.10	87.49	83.57	77.67	71.25	61.33	48.37 20.80
1557.9	97.31	94.81	92.7	66.03	74.92	83.16	89.32	86.97	83.17	78.84	71.71	61.46	46.37 22.18
1523.1	96.91	94.31	92.1	65.20	74.97	82.61	88.32	86.50	82.07	77.76	71.49	61.09	46.52 22.73
1505.7	96.01	93.41	91.2	65.38	74.20	82.44	87.17	85.43	82.13	76.94	70.71	61.19	45.96 22.41
1500.0	95.21	92.01	90.3	64.67	74.07	82.40	85.46	84.00	81.10	76.01	69.78	60.29	45.11 21.63
1495.7	94.01	92.41	90.0	64.17	73.00	82.40	85.07	84.03	80.51	75.72	69.49	60.97	44.74 21.19
1523.1	94.01	91.51	89.4	63.57	71.92	81.34	85.10	83.00	79.78	74.46	68.19	61.99	43.22 19.43
1552.9	93.71	91.21	89.0	62.82	70.17	80.04	84.12	83.66	79.08	74.01	68.27	60.55	42.94 19.74
1594.3	91.91	89.31	87.2	61.78	69.15	77.92	83.31	81.74	78.76	73.65	67.22	57.31	41.35 19.50
1655.1	89.31	86.01	84.7	61.47	68.13	75.63	80.71	78.53	76.16	71.43	66.08	54.71	38.27 18.08

RUN NUMBER	= 346.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -0.500
PRIMARY TEMPERATURE (R)	= 536.000
SECONDARY TEMPERATURE (R)	= 935.000
PRIMARY PRESSURE RATIO	= 2.091
AREA RATIO	= 4.856
VELOCITY RATIO	= .846
PRIMARY VELOCITY (FT/SEC)	= 1109.432
MASS FLOW RATIO	= 3.094
PRIMARY MASS FLOW (LB/SEC)	= .423
THRUST (LBS)	= 53.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (MV TO DY/50 CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 65.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	9.32141E+00	137.4	10000	160.2
500	1.13235E-01	120.9	20000	163.2
1000	5.91084E-01	127.7	40000	166.2
2000	1.46069E+00	131.6	80000	169.2
4000	1.38301E+00	131.4		
8000	1.05993E+00	130.3		
16000	6.25684E-01	128.0		
31500	2.67776E-01	124.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	100.2	106.6	107.6	103.3	97.2	91.2	85.4	111.5
20.0	100.0	106.6	107.6	103.3	97.5	91.5	85.3	112.2
25.0	98.3	105.9	106.0	103.3	100.6	95.9	90.9	112.5
30.0	96.6	104.7	106.2	103.4	100.9	96.9	92.3	111.9
35.0	94.7	102.6	106.9	105.6	101.8	97.6	93.0	111.1
40.0	92.8	100.9	105.9	105.7	102.9	98.7	94.3	110.7
45.0	90.8	98.0	104.1	104.4	102.7	98.4	93.9	109.5
50.0	89.5	96.6	102.6	104.1	102.7	98.3	95.0	109.0
55.0	88.4	95.3	101.0	102.6	101.9	98.6	96.3	108.0
60.0	87.4	94.5	100.1	101.9	101.7	98.0	96.4	107.6
65.0	87.1	93.9	99.0	101.1	101.1	99.1	95.5	106.9
70.0	86.5	93.0	98.7	100.9	100.6	99.1	96.9	106.3
75.0	86.6	93.2	98.4	100.4	100.6	99.2	96.1	106.5
80.0	86.5	92.9	97.7	100.1	100.5	99.3	96.5	106.3
85.0	86.1	92.6	97.2	99.5	99.7	98.4	95.6	105.6
90.0	85.8	92.1	97.2	99.5	99.9	98.1	94.9	105.5
95.0	86.1	91.4	97.0	98.9	99.0	98.1	94.9	105.3
100.0	85.0	91.2	96.4	99.0	99.6	98.1	94.9	105.2
105.0	84.1	90.6	96.1	98.6	99.3	98.0	94.8	104.9
110.0	83.2	89.9	95.3	98.3	98.6	97.6	94.6	104.3
115.0	83.2	88.1	94.0	97.3	98.6	97.7	94.7	104.0

MODEL THRUST = 53.000 FULL SCALE THRUST = 20000.000

LT	PNDB	QASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
			25.7	51.5	103.0	205.9	411.8	823.7	1621.6	3243.1	6434.6	12869.5	25739.1
5795.6	80.61 (80.5)	82.3	71.22	77.57	78.46	73.60	66.05	56.25	41.92	20.33	-18.23	-84.40	-187.70
4385.7	85.01 (84.7)	85.3	73.43	80.07	81.98	76.84	70.29	62.94	52.83	35.77	5.86	-44.94	-123.04
3549.3	88.01 (87.5)	87.5	73.57	81.17	84.23	80.16	74.59	67.20	57.31	42.93	18.15	-23.53	-87.96
3000.0	89.81 (89.1)	88.3	73.57	81.47	84.84	81.81	76.57	70.20	61.60	48.98	27.57	-8.13	-63.05
2615.2	91.31 (90.5)	88.7	72.72	80.52	84.79	83.24	78.60	72.88	64.40	53.01	33.96	2.46	-45.80
2333.6	92.71 (91.7)	89.2	71.81	79.85	84.61	84.35	80.97	75.26	67.43	56.95	39.63	11.20	-32.19
2121.3	92.91 (91.7)	88.8	70.60	78.52	83.81	83.68	81.66	76.04	68.34	58.54	42.52	16.40	-23.31
1938.7	93.81 (92.4)	88.9	70.93	77.08	82.03	80.31	82.41	77.78	70.58	61.30	48.74	21.94	-14.95
1831.2	94.11 (92.5)	88.4	69.44	76.35	81.97	83.46	82.27	78.78	72.84	63.97	49.73	24.76	-7.92
1732.1	94.41 (92.7)	88.4	68.92	76.85	81.60	83.20	82.57	79.37	73.57	65.02	51.39	29.51	-3.46
1655.1	94.21 (92.4)	88.1	69.08	76.83	80.90	82.68	82.41	79.34	73.28	64.97	51.81	30.78	-0.87
1596.3	94.41 (92.5)	88.1	68.90	75.78	80.92	82.58	82.24	79.67	74.28	66.15	53.35	32.95	2.33
1552.0	94.81 (92.8)	88.3	69.14	75.65	80.82	82.78	82.69	80.13	74.76	66.78	54.25	34.32	4.45
1523.1	94.91 (92.9)	88.2	69.18	75.55	80.74	82.62	82.60	80.27	75.35	67.47	55.12	35.52	6.70
1505.7	94.21 (92.2)	87.7	68.88	75.11	79.96	82.13	81.90	79.60	74.63	66.80	54.56	35.15	6.09
1500.0	94.11 (92.2)	87.6	68.84	74.93	79.89	82.13	82.15	79.35	73.96	66.15	53.94	34.60	5.64
1505.7	93.91 (92.0)	87.3	68.88	74.15	79.68	81.49	81.97	79.36	73.91	66.08	53.84	34.63	5.37
1523.1	93.71 (91.7)	87.1	67.82	73.69	79.66	81.49	81.68	79.25	73.77	65.88	51.54	33.94	4.58
1552.0	93.21 (91.2)	86.6	66.64	73.66	78.94	80.86	81.25	78.45	73.64	65.46	52.93	33.81	3.13
1596.3	92.31 (90.3)	85.8	65.40	71.22	77.59	80.32	80.41	78.06	72.87	64.95	51.75	31.38	1.73
1655.1	91.71 (89.7)	85.0	65.19	70.64	75.91	79.00	79.96	76.00	72.46	64.16	51.00	29.06	-1.08

RUN NUMBER	348.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-8.500
PRIMARY TEMPERATURE (R)	540.000
SECONDARY TEMPERATURE (R)	538.000
PRIMARY PRESSURE RATIO	3.050
AREA RATIO	9.788
VELOCITY RATIO	1.370
PRIMARY VELOCITY (FT/SEC)	1334.705
MASS FLOW RATIO	2.877
PRIMARY MASS FLOW (LB/SEC)	.427
THRUST (LBS)	38.000
ENVIRONMENTAL TEMPERATURE (R)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	64.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.048
INSTRUMENTATION NOISE FLOOR (DB)	61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	3.83457E+00	135.6	THRUST	POWER LEVEL (DB)
500	2.79489E-02	114.5	10000	160.3
1000	1.55591E-01	121.9	20000	163.3
2000	7.13649E-01	128.5	40000	166.3
4000	1.44681E+00	131.6	80000	169.3
8000	8.98921E-01	129.5		
16000	4.27195E-01	126.3		
31500	1.76749E-01	122.3		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	900	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	93.2	98.1	99.0	109.8	91.0	86.0	81.4	105.0
20.0	92.0	99.3	100.0	98.0	92.9	88.5	83.9	105.8
25.0	91.0	99.8	101.4	99.4	94.3	89.5	85.1	105.6
30.0	91.0	97.9	101.5	100.7	96.8	91.1	86.9	105.9
35.0	88.9	96.7	101.7	102.1	97.4	92.5	88.5	106.5
40.0	87.3	98.1	101.8	104.5	100.8	95.1	90.8	107.8
45.0	85.7	95.8	101.3	105.3	102.8	97.9	92.6	109.0
50.0	84.2	92.3	100.9	105.9	103.8	98.5	93.0	109.6
55.0	83.0	91.2	100.9	106.0	104.2	100.2	95.3	109.7
60.0	82.0	90.7	100.1	106.7	103.5	100.0	95.9	109.8
65.0	81.7	90.4	99.3	103.5	102.3	99.6	95.4	107.9
70.0	81.0	90.1	99.0	103.9	101.8	98.9	95.7	107.6
75.0	81.3	89.7	98.2	101.7	100.4	97.8	94.4	106.3
80.0	80.8	89.1	97.3	100.5	99.1	96.8	93.9	105.1
85.0	80.3	89.6	97.8	99.0	98.5	96.6	93.8	104.9
90.0	80.1	88.8	97.4	99.0	97.9	96.8	92.7	104.2
95.0	79.4	88.2	97.4	99.0	96.8	96.9	91.5	103.7
100.0	78.3	88.0	96.4	98.3	96.8	96.1	90.8	103.0
105.0	78.0	88.8	98.2	97.9	98.2	95.5	89.5	102.6
110.0	77.0	88.7	95.1	91.0	90.1	92.4	89.1	102.5
115.0	78.0	86.3	91.6	93.5	91.0	90.0	87.3	98.5

MODEL THRUST = 38000 FULL SCALE THRUST = 10000.000

L.	PM00.	QASPL	OCTAVE		BAND	SOUND	PRESSURE	LEVELS				
			30.0	60.0	120.0	240.0	480.0	960.0	1920.0	3840.0	7680.0	30000.0
3749.0	74.01	74.11	74.11	82.07	87.70	89.21	89.30	87.93	88.41	87.01	9.10	-26.55
4385.7	76.81	76.21	76.7	84.99	71.40	72.76	89.30	82.92	85.05	42.82	23.30	-10.37
3340.3	80.11	79.77	79.1	85.82	72.46	75.28	72.77	86.57	80.80	48.30	32.10	-4.28
3000.0	83.11	82.01	80.9	86.40	73.30	76.83	75.65	70.81	82.72	53.26	39.82	16.98
2615.2	88.71	85.11	82.0	85.50	73.32	78.24	70.33	72.70	85.79	57.10	44.38	23.04
2323.6	88.91	88.21	84.9	10.01	72.73	79.16	81.72	78.50	69.83	61.33	49.59	30.22
2171.8	91.31	89.43	89.0	10.10	72.20	79.87	83.84	80.23	73.65	64.68	52.74	35.88
1950.1	92.01	91.01	87.0	13.32	71.47	79.00	84.71	81.49	75.22	67.00	56.74	40.01
1831.2	93.80	92.71	88.7	82.70	70.92	80.55	83.45	83.88	77.64	69.66	60.60	43.73
1732.1	93.01	92.71	89.4	82.07	70.04	80.22	80.62	87.93	78.00	70.92	61.63	46.20
1635.1	93.41	92.11	87.0	82.32	70.00	70.00	83.00	82.13	78.15	71.02	61.82	47.31
1596.3	93.31	91.01	87.5	12.77	70.49	70.85	83.71	81.63	77.85	71.41	62.63	48.54
1532.0	92.31	91.07	88.7	12.43	70.82	70.32	82.63	80.81	77.82	70.82	62.82	48.12
1523.1	91.01	90.01	89.7	61.90	70.40	70.53	81.91	79.69	76.19	70.87	61.57	47.00
1505.7	91.51	89.91	89.6	61.75	71.02	70.10	80.96	78.22	76.17	70.73	62.00	48.53
1500.0	90.01	89.21	84.9	61.62	70.30	70.70	80.22	78.61	75.50	69.66	61.02	47.50
1505.7	90.01	88.61	84.9	60.80	69.57	70.72	80.15	77.54	74.62	64.37	59.73	46.16
1523.1	89.21	87.71	83.7	59.59	67.46	77.64	79.36	77.37	73.41	67.69	58.78	45.10
1532.0	88.21	86.01	82.0	59.21	68.02	70.30	78.00	78.19	72.71	65.44	57.14	43.75
1500.0	88.31	86.71	80.7	59.52	65.40	73.07	78.42	74.32	71.31	65.19	56.21	42.01
1535.1	83.01	82.21	78.4	58.00	66.40	72.17	73.87	71.63	68.50	62.88	53.00	39.00

RUN NUMBER	349.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-8.500
PRIMARY TEMPERATURE (R)	541.000
SECONDARY TEMPERATURE (R)	540.000
PRIMARY PRESSURE RATIO	2.094
AREA RATIO	9.788
VELOCITY RATIO	.846
PRIMARY VELOCITY (FT/SEC)	1114.595
MASS FLOW RATIO	6.054
PRIMARY MASS FLOW (LB/SEC)	.427
THRUST (LBS)	89.000
ENVIRONMENTAL TEMPERATURE (R)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.618
ENVIRONMENTAL HUMIDITY (PER CENT)	59.008
CALIBRATION FACTOR (MV TO DY/50 CM)	.071
INSTRUMENTATION NO/SE FLOOR (DB)	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	6.81303E+00	138.3	THRUST	POWER LEVEL (DB)
500	3.05756E-01	124.9	10000	158.8
1000	1.76369E+00	130.7	20000	161.8
2000	1.73575E+00	132.4	40000	164.9
4000	1.61525E+00	132.1	80000	167.9
8000	1.12377E+00	130.5		
16000	5.98770E-01	127.8		
31500	2.69482E-01	124.3		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	104.3	108.3	91.6	100.9	93.6	90.1	86.9	110.8
30.0	104.0	109.2	107.0	103.1	98.4	92.3	88.2	113.0
45.0	103.0	109.1	108.7	104.6	99.5	95.8	89.8	113.3
60.0	101.9	108.4	108.0	105.6	101.1	96.2	92.3	113.3
75.0	99.4	106.2	108.7	106.3	102.1	97.8	93.6	112.8
90.0	97.8	103.9	108.0	106.1	102.8	98.3	94.5	111.7
105.0	95.2	101.8	105.2	103.5	103.8	99.2	93.4	110.8
120.0	93.3	99.7	104.1	103.1	103.6	100.0	96.0	110.2
135.0	91.8	98.1	102.7	101.0	102.7	99.0	96.4	109.3
150.0	91.3	97.2	101.9	100.1	102.3	99.0	96.1	108.6
165.0	91.2	96.8	101.1	100.5	101.9	99.0	96.2	108.2
180.0	91.3	96.4	100.6	101.6	101.3	99.3	96.0	107.6
195.0	90.8	95.9	100.1	101.2	100.9	98.9	95.7	107.1
210.0	90.3	95.1	99.2	100.0	100.4	98.6	95.4	106.7
225.0	89.8	94.9	98.1	99.3	99.8	98.0	94.9	106.2
240.0	89.5	94.3	98.8	99.8	99.7	97.8	94.9	105.8
255.0	89.2	93.6	98.1	99.8	99.8	97.8	94.8	105.7
270.0	88.8	93.4	97.8	99.8	99.8	97.3	94.8	105.8
285.0	87.4	92.8	97.3	99.6	99.8	97.1	93.3	105.2
300.0	86.8	91.8	96.8	99.1	99.9	96.9	93.8	104.7
315.0	86.8	90.8	95.8	98.8	99.2	96.3	93.8	103.9

MODEL THRUST = 89.000 FULL SCALE THRUST = 20000.000

LT	PRD.	GASPL	32.0	63.7	125.0	250.0	500.0	1000.0	2000.0	4000.0	8000.0	16000.0	31500.0
8749.6	75.51	75.41	70.0	73.12	78.99	84.06	88.03	91.19	93.47	95.72	97.02	98.45	99.87
8285.7	82.91	82.87	83.9	75.22	81.37	78.73	73.43	67.23	57.18	46.38	37.88	30.58	24.88
3549.3	85.21	85.01	86.1	76.61	82.10	81.57	76.03	70.54	61.71	50.47	42.91	36.08	30.40
2808.0	88.71	88.07	87.3	76.38	82.69	83.18	76.58	71.48	60.38	50.48	41.01	34.40	28.46
2019.2	90.51	90.01	89.1	75.11	81.86	84.38	81.67	76.37	65.38	55.48	46.01	38.40	32.46
1533.6	91.41	90.81	87.6	73.96	80.56	83.32	82.33	76.14	71.81	63.17	54.66	46.55	39.13
1211.3	92.81	91.21	87.7	72.78	79.32	82.86	82.65	76.38	73.63	65.65	57.63	49.46	41.72
944.01	92.81	91.71	87.7	71.51	77.97	82.17	82.96	76.78	73.16	65.53	57.36	49.38	41.53
1831.2	92.81	91.51	87.3	70.86	76.34	81.55	82.68	76.06	72.48	64.82	56.31	48.26	40.41
1732.1	92.81	91.57	87.1	70.86	76.66	81.12	82.69	76.58	72.98	65.42	56.93	48.88	40.46
1655.1	92.71	91.61	87.3	70.87	76.18	80.69	81.95	76.42	72.82	65.25	56.77	48.67	40.18
1596.2	92.71	91.67	86.8	71.26	76.66	80.55	81.33	76.42	72.82	65.25	56.77	48.67	40.18
1552.9	92.81	91.31	86.8	70.88	76.88	80.78	81.11	76.42	72.82	65.25	56.77	48.67	40.18
1523.7	92.51	91.11	86.2	70.69	76.67	80.58	81.01	76.42	72.82	65.25	56.77	48.67	40.18
1503.7	92.81	90.61	85.9	70.31	76.52	80.56	80.53	76.42	72.82	65.25	56.77	48.67	40.18
1488.8	91.71	90.31	85.5	70.83	76.03	80.08	80.65	76.41	72.81	65.24	56.76	48.66	40.17
1463.7	91.61	90.21	85.4	69.79	76.16	80.55	80.81	76.23	72.67	65.02	56.58	48.61	40.07
1423.1	91.21	90.01	85.1	68.84	73.76	80.17	80.12	76.18	72.58	64.95	56.52	48.56	40.02
1357.9	90.71	89.61	84.8	67.84	72.19	77.62	78.52	76.08	72.48	64.85	56.70	48.68	40.01
1346.3	89.91	88.61	83.8	68.97	71.74	76.39	78.42	76.66	73.06	64.97	56.33	48.38	40.15
1039.1	88.71	87.51	82.6	66.56	70.65	75.16	77.36	76.02	72.42	64.80	56.12	48.02	40.01

RUN NUMBER	350.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-8.500
PRIMARY TEMPERATURE (R)	538.000
SECONDARY TEMPERATURE (R)	540.000
PRIMARY PRESSURE RATIO	1.851
AREA RATIO	9.788
VELOCITY RATIO	1.017
PRIMARY VELOCITY (FT/SEC)	1023.309
MASS FLOW RATIO	6.492
PRIMARY MASS FLOW (LB/SEC)	.423
THRUST (LBS)	107.500
ENVIRONMENTAL TEMPERATURE (R)	522.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	57.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.100
INSTRUMENTATION NOISE FLOOR (DB)	49.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	1.32121E+01	127.2	THRUST POWER LEVEL (DB)
500	5.145521E-01	127.9	10000 160.9
1000	2.28026E+00	133.6	20000 163.9
2000	3.37682E+00	135.7	40000 166.9
4000	2.85287E+00	136.6	80000 169.9
8000	2.26523E+00	137.4	
16000	1.35010E+00	131.3	
31500	5.81174E-01	127.6	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	OCTAVE BAND 2000	OCTAVE BAND 4000	OCTAVE BAND 8000	OCTAVE BAND 16000	31500	OVER ALL
15.0	107.1	110.9	109.2	100.5	99.3	94.8	89.9	114.0
20.0	108.5	112.4	110.0	103.2	100.0	97.0	91.6	115.9
25.0	109.9	112.5	110.1	107.4	102.0	97.6	93.0	116.6
30.0	109.9	111.3	112.7	100.0	100.5	99.3	93.2	116.7
35.0	107.2	109.4	111.0	100.0	100.0	100.0	93.0	115.4
40.0	99.4	100.9	109.0	100.9	100.0	101.7	97.0	110.7
45.0	97.0	100.3	107.9	100.1	100.3	103.0	99.7	113.6
50.0	95.7	101.9	108.0	107.3	100.1	102.7	98.0	112.7
55.0	96.1	100.4	106.0	100.3	103.7	102.9	99.3	111.9
60.0	93.0	99.7	100.3	103.0	103.3	103.3	99.0	113.0
65.0	93.7	99.1	102.1	100.0	104.4	102.7	99.0	110.7
70.0	93.7	98.0	102.0	103.0	103.6	102.0	99.2	110.9
75.0	93.7	98.0	101.9	103.2	103.2	102.0	99.0	109.6
80.0	93.0	97.0	101.9	102.0	102.0	102.0	98.2	109.0
85.0	92.0	97.2	101.2	102.0	102.0	102.0	98.2	109.1
90.0	91.0	96.7	100.0	102.0	102.0	101.0	97.9	108.8
95.0	91.3	96.2	100.3	101.0	102.0	101.0	97.0	108.5
100.0	90.0	95.3	99.0	101.0	102.2	101.2	97.1	108.1
105.0	89.0	95.0	99.3	101.0	102.0	101.5	97.3	108.3
110.0	89.1	94.0	99.0	101.2	102.0	101.1	96.9	107.9
115.0	88.3	93.0	98.0	100.0	102.0	100.0	96.2	107.6

MODEL THRUST = 107.500

FULL SCALE THRUST = 20000.000

L	PROB	OASPL	50.7	OCTAVE BAND 75.3	OCTAVE BAND 100.0	OCTAVE BAND 202.3	OCTAVE BAND 500.0	OCTAVE BAND 1075.0	OCTAVE BAND 2200.0	OCTAVE BAND 4010.0	OCTAVE BAND 7100.0	OCTAVE BAND 10320.0	OCTAVE BAND 20057.2
9795.6	88.01	88.71	82.3	79.68	78.01	76.73	71.20	67.64	62.40	59.51	6.11	-44.46	-129.00
9384.7	85.31	85.21	80.9	78.90	82.66	80.01	74.03	69.42	64.13	65.07	22.09	-17.70	-110.01
3500.3	88.01	88.71	80.6	78.10	84.72	80.07	74.03	70.75	63.80	61.55	32.30	-8.85	-52.69
3000.0	91.31	91.21	88.0	78.53	80.46	80.20	81.80	70.33	60.10	57.30	40.03	12.75	-22.20
2619.2	92.34	92.11	89.9	77.00	80.25	85.70	83.10	70.02	70.73	64.02	45.91	21.22	-10.25
2357.0	93.01	93.31	89.9	75.27	82.77	85.53	80.20	69.37	73.75	60.07	51.00	20.69	-0.94
2121.3	94.01	93.71	89.5	74.29	80.40	80.47	80.31	81.66	70.23	60.20	55.50	35.00	2.34
1900.7	94.91	93.01	89.3	73.33	79.20	80.40	80.40	82.76	70.00	60.71	50.70	27.55	7.17
1031.2	94.01	93.71	89.9	72.08	78.40	82.76	80.00	82.40	77.66	70.27	60.43	49.74	12.14
1752.1	94.01	93.01	89.9	72.03	78.20	82.40	80.00	82.40	70.01	71.07	60.70	43.81	10.20
1639.1	94.71	93.01	88.5	72.01	77.90	81.40	80.33	82.35	70.01	72.10	61.00	40.07	10.73
1500.3	94.01	93.31	88.2	72.02	78.01	81.70	82.40	81.70	70.73	72.20	62.02	45.70	20.40
1552.9	94.01	93.01	88.0	72.11	77.36	81.22	82.31	81.60	70.23	73.00	67.01	47.13	22.02
1523.7	94.01	92.01	87.0	72.40	77.02	81.01	80.60	81.11	70.40	71.46	62.00	46.30	22.10
1505.7	94.21	93.01	87.7	72.20	76.00	80.70	81.03	81.59	70.30	72.13	62.27	46.70	22.73
1500.0	94.01	92.01	87.4	71.23	76.01	80.73	81.02	81.55	70.01	71.02	61.40	40.55	22.57
1485.7	93.71	92.51	87.1	70.96	75.02	79.00	81.21	81.15	70.42	71.00	61.62	40.13	22.00
1473.1	93.11	91.01	86.0	70.37	74.00	78.20	80.01	80.70	70.33	70.02	60.00	35.75	20.05
1552.9	93.21	92.01	86.5	69.27	74.01	78.70	80.00	81.20	70.37	70.70	60.00	35.70	20.07
1540.4	92.01	91.51	85.9	68.30	73.00	78.00	80.03	80.40	70.40	70.40	60.40	35.40	19.40
1630.1	91.01	90.71	85.1	67.36	72.23	78.00	78.00	80.03	70.00	60.73	50.10	41.40	19.22

RUN NUMBER	408.00 (H21.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	528.000
SECONDARY TEMPERATURE (R)	527.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	1.000
VELOCITY RATIO	.695
PRIMARY VELOCITY (FT/SEC)	896.091
MASS FLOW RATIO	.634
PRIMARY MASS FLOW (LB/SEC)	.203
THRUST (LBS)	8.153
ENVIRONMENTAL TEMPERATURE (R)	519.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	72.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.025
INSTRUMENTATION NOISE FLOOR (DB)	57.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	7.26226E-01	128.6	THRUST	POWER LEVEL (DB)
500	1.00171E-02	110.0	10000	159.5
1000	5.40461E-02	117.3	20000	162.5
2000	1.82412E-01	122.6	40000	165.5
4000	2.14123E-01	123.3	80000	168.5
8000	1.65419E-01	122.2		
16000	7.47425E-02	118.7		
31500	2.54666E-02	114.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	89.8	97.3	102.1	99.5	92.5	83.2	77.4	105.2
20.0	88.3	96.5	101.6	99.7	94.1	85.6	79.0	105.0
25.0	87.3	95.2	100.3	99.5	95.8	88.0	80.8	104.5
30.0	85.1	93.3	98.7	99.1	96.7	90.4	83.3	103.6
35.0	83.4	91.1	96.7	98.1	96.8	91.9	85.5	102.9
40.0	81.2	89.0	94.6	96.6	96.2	92.4	86.9	101.7
45.0	80.7	87.5	93.6	95.7	95.5	92.3	87.4	101.0
50.0	79.3	86.0	92.2	94.4	94.3	91.7	86.7	99.8
55.0	77.9	85.4	91.2	93.8	93.9	91.3	86.5	99.2
60.0	78.5	84.9	90.5	93.0	93.2	90.4	86.3	98.6
65.0	78.5	84.7	90.0	92.3	92.5	89.9	85.6	97.9
70.0	78.0	83.9	89.5	91.6	91.8	89.1	84.8	97.2
75.0	77.7	84.1	88.8	91.1	91.2	88.7	84.6	96.7
80.0	77.1	83.6	88.6	90.7	90.8	88.4	84.4	96.4
85.0	76.7	82.8	88.1	90.2	90.3	87.7	83.4	95.8
90.0	76.8	82.7	88.0	89.7	90.1	87.5	83.5	95.6
95.0	76.3	82.3	87.1	89.2	89.4	86.7	83.0	94.9
100.0	76.0	82.1	86.7	88.9	89.2	86.5	82.8	94.6
105.0	75.5	81.1	86.4	88.5	88.9	86.1	82.4	94.2
110.0	74.5	80.7	85.9	87.8	88.0	85.6	82.1	93.6
115.0	74.1	80.2	85.5	87.6	87.9	85.4	82.1	93.4

MODEL THRUST = 8.153 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	10.1	OCTAVE 20.2	BAND 40.4	SOUND 80.8	PRESSURE 161.5	LEVELS 323.0	636.0	1272.0	2523.8	5047.5	10095.0
5795.6	78.71 (78.0)	84.3	68.99	76.46	81.22	78.55	71.24	60.85	52.43	42.93	25.77	-5.95	-61.35
4385.7	82.51 (81.67)	86.6	69.95	78.12	83.15	81.23	75.32	66.06	57.45	49.53	35.82	11.08	-31.58
3549.3	85.41 (84.2)	87.8	70.76	78.61	83.73	82.89	78.71	70.52	61.74	54.76	43.09	22.50	-12.59
3000.0	87.91 (86.3)	88.6	69.97	78.18	83.55	83.92	81.34	74.49	66.05	59.69	49.36	31.49	1.36
2615.2	89.61 (87.6)	88.8	69.56	77.21	82.82	84.17	82.66	77.36	69.73	63.80	54.41	38.45	11.80
2333.6	90.41 (88.0)	88.6	68.29	76.05	81.72	83.67	83.10	78.92	72.27	66.66	57.96	43.39	19.29
2121.3	91.11 (88.3)	88.7	68.63	75.39	81.50	83.55	83.23	79.69	73.82	68.44	60.26	46.75	24.57
1947.1	91.31 (88.1)	88.3	67.90	74.65	80.81	82.97	82.73	79.77	73.90	68.78	60.92	48.22	27.51
1821.2	91.31 (88.3)	88.3	67.06	74.63	80.34	82.97	82.99	80.01	74.40	69.35	61.87	49.80	30.24
1732.1	91.51 (88.3)	88.2	68.22	74.54	80.19	82.62	82.77	80.04	74.78	69.84	62.61	51.02	32.36
1655.1	91.21 (87.9)	87.9	68.61	74.80	80.02	82.36	82.41	79.57	74.49	69.63	62.59	51.39	33.42
1594.3	90.81 (87.5)	87.5	68.39	74.27	79.87	81.99	82.09	79.12	74.04	69.75	62.35	51.44	34.00
1552.9	90.61 (87.3)	87.3	68.35	74.33	79.43	81.70	81.71	78.93	74.09	69.35	62.56	51.66	34.82
1523.1	90.51 (87.1)	87.1	67.93	74.45	79.41	81.49	81.49	78.82	74.06	69.35	62.63	52.69	35.31
1505.7	89.91 (86.5)	86.6	67.56	73.83	79.01	81.03	81.06	78.19	73.24	68.55	61.87	51.41	34.79
1500.0	89.81 (86.4)	86.4	67.75	73.42	78.89	80.64	80.92	78.03	73.40	68.71	62.05	51.62	35.05
1465.7	89.11 (85.6)	85.0	67.23	73.24	78.04	80.02	80.22	77.24	72.05	68.17	61.49	51.03	34.41
1523.1	88.71 (85.2)	85.4	66.79	72.87	77.53	79.62	79.88	76.92	72.48	67.77	61.05	50.50	33.73
1552.9	88.01 (84.6)	84.8	66.09	71.73	77.06	79.09	79.37	76.30	71.88	67.14	60.34	49.65	32.61
1594.3	87.21 (83.7)	83.9	64.87	71.07	76.31	78.13	78.30	75.57	71.32	66.53	59.64	48.72	31.29
1555.1	86.71 (83.2)	83.4	64.13	70.32	75.59	77.61	77.81	75.08	70.97	66.11	59.07	47.87	29.90

RUN NUMBER	409.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	526.000
SECONDARY TEMPERATURE (R)	525.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	1.000
VELOCITY RATIO	.999
PRIMARY VELOCITY (FT/SEC)	894.392
MASS FLOW RATIO	1.044
PRIMARY MASS FLOW (LB/SEC)	.203
THRUST (LBS)	11.540
ENVIRONMENTAL TEMPERATURE (R)	519.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.009
INSTRUMENTATION NOISE FLOOR (DB)	48.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.36605E-01	121.4	THRUST	POWER LEVEL (DB)
500	1.51378E-03	101.8	10000	150.7
1000	8.48664E-03	107.3	20000	153.7
2000	2.66416E-02	114.3	40000	156.8
4000	3.74476E-02	115.7	80000	159.8
6000	3.07328E-02	114.9		
10000	2.06691E-02	113.2		
31500	1.11131E-02	110.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	81.5	80.5	92.4	89.7	85.1	79.0	76.1	96.0
20.0	80.4	87.6	92.0	93.2	86.3	81.3	77.2	97.0
25.0	78.7	86.4	91.4	90.9	87.4	82.7	78.4	95.9
30.0	77.3	85.3	90.0	91.1	88.8	84.4	80.2	96.0
35.0	75.3	83.0	88.6	90.0	88.8	85.4	81.1	95.0
40.0	73.3	80.9	87.0	89.2	88.7	86.0	81.9	94.4
45.0	72.0	80.4	85.9	88.1	87.6	85.6	82.1	93.5
50.0	71.3	78.1	84.9	87.3	86.9	85.4	82.5	92.9
55.0	70.0	77.8	84.1	86.3	86.5	85.0	82.1	92.2
60.0	70.5	77.4	83.2	85.7	85.8	84.6	82.1	91.7
65.0	69.5	76.7	82.9	85.4	85.5	84.4	82.0	91.4
70.0	69.6	76.2	81.8	84.6	85.0	83.9	81.6	90.8
75.0	69.4	75.6	81.8	84.2	84.3	83.4	81.1	90.3
80.0	68.8	75.1	81.0	83.8	84.0	83.2	80.9	89.9
85.0	68.8	74.7	80.8	83.1	83.8	82.6	80.6	89.4
90.0	68.3	74.3	79.9	82.5	83.2	82.3	80.1	89.0
95.0	67.6	74.1	79.7	81.9	83.1	82.4	80.3	88.9
100.0	67.6	74.2	79.1	81.3	82.6	82.1	80.1	88.4
105.0	66.8	73.0	78.5	81.2	82.3	81.8	79.8	88.1
110.0	66.4	72.7	78.0	80.8	82.1	81.8	79.7	87.9
115.0	65.7	71.3	77.1	79.9	81.6	81.7	80.0	87.5

MODEL THRUST = 11.540 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE 12.0	BAND 24.0	SOUND 48.0	PRESSURE 96.1	LEVELS 192.2	384.3	756.7	1513.3	3002.6	6005.2	12010.4
5795.6	68.9 (67.8)	73.5	59.17	66.12	70.04	67.22	62.08	55.32	48.45	37.45	17.43	-19.28	-82.25
4389.7	74.51 (73.2)	76.9	60.31	67.72	72.08	73.19	65.88	59.69	53.31	44.28	28.38	4.13	-18.52
3549.3	76.51 (74.9)	77.7	60.69	68.31	73.29	72.71	68.93	63.41	57.09	49.19	35.76	12.12	-27.61
3000.0	79.81 (77.8)	77.2	60.74	70.69	73.37	74.40	71.89	66.80	60.82	53.67	41.86	27.41	-12.63
2615.2	81.21 (78.9)	79.4	59.86	67.59	73.18	74.47	73.14	69.09	63.27	56.65	45.98	27.77	-2.29
2353.6	82.51 (79.8)	79.7	58.92	66.45	72.56	74.70	73.99	70.80	65.34	59.12	49.26	32.69	5.54
2121.3	83.11 (80.2)	79.7	58.39	66.79	72.32	74.43	73.75	71.28	66.62	60.69	51.46	36.12	11.17
1958.1	83.71 (80.5)	79.8	59.38	65.20	72.03	74.36	73.83	71.80	67.81	62.11	53.38	38.97	15.71
1831.2	84.01 (80.7)	79.7	58.30	65.53	71.74	73.89	73.45	72.09	68.11	62.59	54.21	40.56	18.61
1732.1	84.21 (80.7)	79.8	58.87	65.52	71.37	73.79	73.75	72.20	68.69	63.30	55.21	42.13	21.21
1655.1	84.51 (80.9)	79.8	58.08	65.22	71.44	73.91	73.92	72.36	69.10	63.82	55.96	43.33	23.20
1596.3	84.41 (80.7)	79.5	58.52	65.04	70.71	73.47	73.71	72.25	69.05	63.84	56.16	43.87	24.35
1552.9	84.21 (80.5)	79.3	58.50	64.69	70.91	73.38	73.21	72.00	68.83	63.68	56.12	44.00	25.82
1523.1	84.11 (80.3)	79.1	58.13	64.38	70.29	73.03	73.08	71.98	68.79	63.49	56.22	44.38	25.59
1505.7	83.71 (79.9)	78.7	57.94	64.09	70.02	72.86	72.80	71.43	68.41	63.53	56.11	44.35	25.77
1480.0	83.41 (79.5)	78.2	57.68	63.74	69.34	71.86	72.41	71.26	68.15	63.08	55.67	43.95	25.42
1465.7	83.41 (79.5)	78.1	57.19	63.47	69.12	71.29	72.30	71.31	68.36	63.28	55.86	44.10	25.52
1457.1	82.91 (79.0)	77.5	56.93	63.53	68.38	70.58	71.67	70.87	67.99	62.89	55.42	43.56	24.80
1452.7	82.41 (78.5)	77.0	55.92	62.07	67.63	70.29	71.24	70.43	67.54	62.39	54.83	42.80	23.73
1444.4	81.91 (78.1)	76.0	55.32	61.59	66.88	69.43	70.81	70.17	67.12	61.62	54.23	41.95	22.43
1455.1	81.41 (77.4)	75.8	54.23	59.90	65.65	68.39	70.02	69.75	67.02	61.74	53.88	41.25	21.12

MUN NUMBER	=	410.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	4.100
PRIMARY TEMPERATURE (H)	=	527.000
SECONDARY TEMPERATURE (H)	=	526.000
PRIMARY-PRESSURE RATIO	=	1.600
AREA RATIO	=	1.000
VELOCITY RATIO	=	1.144
PRIMARY VELOCITY (FT/SEC)	=	895.242
MASS FLOW RATIO	=	1.262
PRIMARY MASS FLOW (LB/SEC)	=	.202
THRUST (LBS)	=	13.854
ENVIRONMENTAL TEMPERATURE (H)	=	519.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	=	72.000
CALIBRATION FACTOR (MV TO DY/50 CM)	=	.011
INSTRUMENTATION NOISE FLOOR (DB)	=	50.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.63493E-01	124.2	THRUST	POWER LEVEL (DB)
500	2.28931E-03	103.6	10000	152.8
1000	1.16248E-02	110.7	20000	155.8
2000	3.87708E-02	115.9	40000	158.8
4000	6.54241E-02	118.2	80000	161.8
8000	6.61708E-02	118.2		
16000	4.96367E-02	117.0		
31500	2.99766E-02	114.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	83.3	90.5	93.6	92.2	90.2	85.7	81.1	98.3
20.0	82.0	89.8	93.5	93.5	91.4	87.0	82.0	98.8
25.0	81.0	88.3	92.8	93.6	91.8	87.6	83.3	98.6
30.0	78.8	86.3	91.8	93.3	92.1	88.3	84.3	98.2
35.0	77.1	84.5	90.4	92.7	92.4	89.1	85.2	97.9
40.0	75.2	82.4	88.8	91.8	91.7	89.4	85.9	97.2
45.0	73.6	81.2	87.6	90.8	91.1	89.4	86.6	96.6
50.0	72.7	80.1	86.6	89.9	90.4	89.0	86.6	95.9
55.0	72.7	79.3	85.9	89.1	89.7	88.5	86.1	95.2
60.0	72.8	78.9	85.3	88.6	88.9	88.1	86.1	94.7
65.0	72.3	77.9	84.3	87.7	88.4	87.4	85.4	94.0
70.0	71.5	77.5	83.9	87.2	87.9	87.4	85.5	93.7
75.0	70.8	77.1	83.3	86.6	87.3	86.9	85.4	93.3
80.0	70.5	76.8	83.1	86.0	86.8	86.7	84.7	92.8
85.0	70.1	76.4	82.0	85.4	86.5	86.4	84.7	92.4
90.0	69.6	75.8	81.5	85.1	86.2	86.3	84.7	92.2
95.0	69.3	75.5	81.0	84.4	86.1	86.3	85.0	92.0
100.0	68.8	75.3	80.8	83.9	86.0	86.4	84.9	91.9
105.0	68.6	74.7	80.2	85.9	85.0	86.1	84.6	91.9
110.0	67.4	73.9	79.6	83.7	85.4	86.0	84.2	91.3
115.0	67.4	73.0	78.8	82.8	85.2	86.4	84.8	91.4

MODEL THRUST = 13.854 FULL SCALE THRUST = 20000.000

C.	PNDB.	OASPL	OCTAVE 13.2	BAND 26.3	SOUND 52.6	PRESSURE 105.3	LEVELS 210.6	421.1	829.1	1658.1	3289.9	6579.8	13159.6
5795.6	73.11	72.11	74.9	60.17	67.35	70.42	68.85	66.34	60.34	52.01	40.10	18.39	-21.19
4385.7	77.51	76.31	77.8	61.34	69.09	72.80	72.62	70.16	64.61	56.78	47.04	29.88	-8.00
3549.3	80.41	78.81	79.5	62.11	69.46	73.92	74.57	72.47	67.34	60.81	52.36	37.90	12.50
3060.0	82.61	80.61	80.5	61.46	68.92	74.33	75.74	74.31	69.71	63.84	56.23	43.54	21.61
2615.2	84.31	82.01	81.3	60.93	68.29	74.19	76.19	75.83	71.84	66.24	59.72	47.78	28.27
2333.6	85.21	82.61	81.6	60.03	67.16	73.53	76.49	76.19	73.29	68.26	61.67	51.14	33.41
2121.3	86.21	83.21	81.8	59.19	66.86	73.23	76.33	76.42	74.18	70.06	63.80	53.95	37.56
1950.1	86.81	83.41	81.9	59.03	66.46	72.91	76.17	76.45	74.51	70.89	64.88	55.56	40.20
1831.2	86.81	83.51	81.8	59.61	66.19	72.73	75.89	76.33	74.64	71.09	65.28	56.36	41.81
1732.1	87.11	83.61	81.8	60.21	66.27	72.70	75.80	76.02	74.79	71.68	66.02	57.42	43.49
1654.1	86.91	83.31	81.5	60.03	65.67	72.03	75.40	75.03	74.54	71.48	65.93	57.59	44.14
1596.3	87.21	83.51	81.5	59.60	65.58	71.98	75.23	75.75	74.85	71.98	66.53	58.38	45.30
1552.9	87.11	83.31	81.3	59.16	65.67	71.61	74.86	75.45	74.65	72.14	66.75	58.74	45.93
1523.7	86.91	83.11	81.0	59.05	65.34	71.53	74.47	75.08	74.61	71.60	66.76	58.35	45.73
1500.7	86.81	82.91	80.8	58.70	64.99	70.45	74.04	74.87	74.46	71.72	66.41	58.55	46.04
1500.0	86.61	82.71	80.5	58.26	64.45	70.16	73.42	74.40	74.33	71.91	66.50	58.66	46.19
1500.7	86.61	82.61	80.4	57.90	64.08	69.57	72.95	74.1	74.32	72.00	66.69	58.83	46.32
1523.1	86.41	82.41	80.1	57.29	63.80	69.26	72.31	74.29	74.25	71.75	66.40	58.49	45.87
1552.9	86.01	82.11	80.0	56.94	62.99	68.49	74.19	73.14	74.07	71.36	65.97	57.96	45.16
1596.3	85.31	81.41	79.1	55.94	61.95	67.47	71.69	73.23	73.51	70.68	65.23	57.87	44.00
1654.1	85.21	81.21	78.8	55.23	60.76	66.49	70.50	72.74	73.58	70.89	65.34	57.00	43.55

RUN NUMBER	411.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	525.000
SECONDARY TEMPERATURE (R)	527.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	2.007
VELOCITY RATIO	.347
PRIMARY VELOCITY (FT/SEC)	893.542
MASS FLOW RATIO	.554
PRIMARY MASS FLOW (LB/SEC)	.212
THRUST (LBS)	7.004
ENVIRONMENTAL TEMPERATURE (R)	519.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	72.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	.006
INSTRUMENTATION NOISE FLOOR (DB)	45.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	6.20093E-02	117.9	THRUST	POWER LEVEL (DB)
500	5.35654E-04	97.3	10000	149.5
1000	2.83333E-03	104.5	20000	152.5
2000	1.18474E-02	110.7	40000	155.5
4000	1.68746E-02	112.3	80000	158.5
8000	1.55203E-02	111.9		
16000	9.75250E-03	109.9		
31500	4.58052E-03	106.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	76.3	84.3	90.2	88.4	81.6	74.3	69.6	93.5
20.0	75.5	83.5	90.0	89.0	83.7	77.1	71.5	93.7
25.0	73.6	82.0	88.4	88.9	85.3	79.8	74.3	93.2
30.0	72.2	80.2	86.6	88.1	86.2	81.5	76.4	92.6
35.0	71.2	78.5	85.1	87.2	86.7	83.3	78.3	92.3
40.0	69.0	76.4	83.0	85.7	85.9	83.5	79.2	91.2
45.0	67.4	74.7	81.1	84.2	85.1	83.3	79.2	90.2
50.0	67.0	73.2	79.9	83.0	83.9	82.3	78.8	89.1
55.0	66.4	72.7	79.1	82.1	83.3	82.0	79.0	88.6
60.0	65.7	72.3	78.4	81.7	82.7	81.5	78.6	88.0
65.0	65.7	71.9	77.8	80.8	82.1	80.8	77.9	87.4
70.0	65.5	71.9	77.5	80.4	81.6	80.4	77.4	87.0
75.0	65.1	71.5	77.1	80.3	81.2	80.1	77.2	86.7
80.0	65.3	70.8	76.6	79.6	80.7	79.6	76.8	86.1
85.0	65.1	70.7	76.0	79.1	80.5	79.3	76.6	85.8
90.0	64.3	70.4	75.6	78.9	80.2	78.7	76.2	85.4
95.0	64.3	69.9	75.3	78.3	79.7	78.4	76.0	85.0
100.0	63.6	69.9	75.0	77.8	79.4	78.3	75.8	84.7
105.0	63.6	69.5	74.7	77.5	78.8	77.9	75.5	84.3
110.0	62.7	69.0	74.5	77.1	78.1	77.1	74.7	83.7
115.0	62.5	67.8	74.3	77.0	78.1	76.7	74.6	83.5

MODEL THRUST = 7.004

FULL SCALE THRUST = 20000.000

Ls	PM08	OASPL	OCTAVE		BAND	SOUND		PRESSURE		LEVELS			
			9.4	18.7	37.4	74.9	149.7	299.4	599.5	1178.9	2339.2	4678.3	9356.6
5795.6	65.8 (64.7)	73.2	56.16	64.10	70.05	68.14	61.66	52.78	45.73	36.81	20.77	-8.96	-61.26
4385.7	70.7 (69.3)	75.9	57.75	65.74	72.20	71.19	65.68	58.32	50.96	43.48	30.62	7.39	-32.92
3549.3	74.5 (72.7)	77.2	57.74	66.12	72.47	72.93	69.11	63.12	56.14	49.51	38.53	19.16	-14.83
3000.0	77.2 (75.0)	78.0	57.77	69.74	72.19	73.58	71.50	66.36	60.00	53.93	44.19	27.35	-1.17
2615.2	79.7 (77.0)	78.9	57.97	65.31	71.83	73.90	73.30	69.49	63.43	57.76	48.88	33.82	8.57
2333.6	80.9 (77.8)	78.8	56.73	64.13	70.76	73.39	73.51	70.75	65.45	60.07	51.82	38.06	15.26
2121.3	81.5 (78.1)	78.6	55.96	63.26	69.69	72.70	73.53	71.39	66.47	61.30	53.53	40.75	19.70
1958.1	81.4 (77.8)	78.2	56.29	62.44	69.19	72.24	72.08	71.12	66.80	61.80	54.40	42.37	22.71
1831.7	81.9 (78.1)	78.3	56.24	62.56	68.98	71.91	72.98	71.46	67.68	62.81	55.69	44.24	25.66
1732.1	82.0 (78.1)	78.3	56.04	62.63	68.71	71.97	72.93	71.39	67.80	63.03	56.13	45.15	27.41
1655.1	81.8 (77.8)	78.0	56.43	62.66	68.58	71.49	72.71	71.16	67.57	62.88	56.15	45.52	28.44
1596.3	81.8 (77.8)	77.9	56.60	62.98	68.55	71.43	72.95	71.09	67.44	62.81	56.22	45.85	29.27
1552.9	81.8 (77.7)	77.9	56.40	62.76	68.35	71.58	72.38	71.08	67.52	62.93	56.44	46.27	30.66
1523.1	81.5 (77.3)	77.9	56.72	62.29	68.09	71.04	72.06	70.68	67.31	62.78	56.33	46.31	30.35
1505.7	81.4 (77.1)	77.3	56.67	62.30	67.60	70.65	71.90	70.52	67.22	62.69	56.30	46.35	30.55
1500.0	80.9 (76.6)	77.0	55.70	61.99	67.42	70.44	71.63	69.90	66.84	62.31	55.94	46.02	30.26
1505.7	80.5 (76.2)	76.5	55.87	61.42	66.90	69.79	71.18	69.59	66.59	62.05	55.67	45.72	29.91
1523.1	80.2 (75.9)	76.2	55.07	61.41	66.46	69.22	70.79	69.39	66.26	61.70	55.28	45.25	29.29
1552.9	79.4 (75.4)	75.6	54.91	60.77	66.00	68.73	70.01	68.88	65.84	61.26	54.76	44.60	28.39
1596.3	78.5 (74.3)	74.7	53.71	60.03	65.52	68.11	69.67	67.75	64.77	60.18	53.55	43.19	26.61
1655.1	77.8 (73.6)	74.2	53.19	58.49	65.08	67.67	68.75	67.03	64.25	59.56	52.84	42.20	25.12

RUN NUMBER	412.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (IN/S.)	4.100
PRIMARY TEMPERATURE (R)	528.000
SECONDARY TEMPERATURE (R)	527.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	2.007
VELOCITY RATIO	1.695
PRIMARY VELOCITY (FT/SEC)	896.091
MASS FLOW RATIO	1.264
PRIMARY MASS FLOW (LB/SEC)	2.218
THRUST (LBS)	11.421
ENVIRONMENTAL TEMPERATURE (R)	519.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO OY/SQ CM)	.007
INSTRUMENTATION NOISE FLOOR (DB)	46.605

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.01868E-01	120.1	THRUST	POWER LEVEL (DB)
500	1.22385E-03	100.9	10000	149.5
1000	7.68534E-03	108.9	20000	152.5
2000	2.30934E-02	113.7	40000	155.5
4000	2.76433E-02	114.7	80000	158.5
8000	2.25200E-02	113.5		
16000	1.32790E-02	111.2		
31500	5.82699E-03	107.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	79.5	90.5	91.0	87.4	79.5	73.0	70.9	94.9
20.0	78.5	86.4	91.2	89.1	81.6	74.1	70.9	94.5
25.0	77.7	85.4	91.0	89.9	84.1	76.9	72.9	94.7
30.0	75.8	84.4	89.9	89.9	86.5	80.3	75.3	94.5
35.0	73.9	82.3	88.2	89.2	87.3	82.7	77.3	93.9
40.0	72.6	80.7	86.6	88.0	87.1	83.9	78.5	93.1
45.0	71.4	79.5	85.2	87.0	86.8	83.9	79.4	92.4
50.0	70.7	78.1	84.2	85.9	86.1	84.1	80.0	91.7
55.0	69.9	77.5	83.5	85.3	85.5	83.7	79.9	91.2
60.0	69.5	77.1	82.8	84.7	85.1	83.6	80.2	90.8
65.0	69.7	76.7	82.2	84.0	84.5	82.8	79.5	90.1
70.0	69.3	76.0	81.4	83.4	83.8	82.3	79.0	89.5
75.0	71.1	75.8	81.4	83.0	83.1	81.9	78.7	89.1
80.0	69.1	75.3	80.8	82.7	82.9	81.5	76.3	88.7
85.0	68.5	74.9	80.1	82.1	82.6	81.4	78.5	88.4
90.0	68.2	74.5	79.7	81.7	82.3	80.7	77.3	87.9
95.0	67.7	74.1	79.2	81.1	81.9	80.3	77.1	87.4
100.0	66.4	73.6	79.0	80.9	81.7	80.3	77.3	87.3
105.0	66.4	73.1	78.7	80.5	80.9	79.5	76.6	86.7
110.0	66.0	72.1	78.3	80.4	80.9	79.2	76.4	86.5
115.0	65.7	71.2	77.8	80.1	80.7	78.6	75.9	86.1

MODEL THRUST = 11.421 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND				SOUND PRESSURE		LEVELS					
			11.9	23.9	47.8	95.6	191.2	382.3	752.7	1505.5	2987.1	5974.2	11948.3	
5795.6	65.01	64.11	72.6	57.25	68.18	68.64	64.94	56.54	48.77	42.47	31.52	11.59	-24.96	-87.70
4385.7	69.51	68.41	74.6	58.63	68.58	71.35	69.09	61.24	52.77	47.11	38.09	22.28	-8.11	-54.32
3549.3	73.31	71.91	76.6	59.66	67.42	72.97	71.74	65.71	57.67	51.67	43.80	30.43	6.89	-32.70
3000.0	76.81	75.11	77.8	59.24	67.82	73.27	73.27	69.63	62.73	55.98	48.87	37.10	16.74	-17.19
2615.2	79.11	77.01	78.4	58.59	66.92	72.84	73.74	71.61	66.44	59.59	53.00	42.36	24.22	-5.73
2333.6	80.51	78.01	78.6	58.24	66.37	72.24	73.56	72.47	68.72	62.30	56.18	46.36	29.85	2.80
2121.3	81.31	78.61	78.6	57.91	65.98	71.66	73.36	72.98	69.68	63.92	58.01	48.81	33.53	8.67
1958.1	82.21	79.21	78.7	57.83	65.29	71.30	72.99	73.08	70.58	65.41	59.72	51.00	36.66	13.48
1831.2	82.51	79.41	78.7	57.65	65.28	71.18	72.93	73.00	70.83	66.00	60.49	52.14	38.54	16.66
1732.1	83.01	79.71	78.8	57.73	65.32	71.05	72.84	73.09	71.20	66.93	61.46	53.40	40.37	19.52
1655.1	82.81	79.41	78.6	58.33	65.29	70.81	72.56	72.89	70.83	66.61	61.34	53.50	40.92	20.86
1596.3	82.61	79.11	78.3	58.23	64.91	70.35	72.24	72.51	70.68	66.47	61.28	53.62	41.37	21.92
1552.9	82.51	79.01	78.2	60.28	64.99	70.56	72.10	72.12	70.52	66.45	61.32	53.78	41.79	22.79
1523.7	82.31	78.81	77.9	58.43	64.67	70.58	71.94	72.07	70.30	66.28	61.19	53.74	41.92	23.22
1505.7	82.41	78.71	77.7	57.96	64.31	69.55	71.51	71.86	70.34	66.58	61.51	54.11	42.40	23.88
1500.0	81.61	78.01	77.2	57.64	63.98	69.14	71.10	71.57	69.64	65.43	60.37	52.99	41.31	22.83
1505.7	81.11	77.51	76.7	57.11	63.56	68.60	70.45	71.17	69.19	65.10	60.11	52.71	41.00	22.40
1523.1	81.01	77.41	76.5	55.78	62.94	68.29	70.22	70.42	69.12	65.28	60.19	52.74	40.92	22.22
1552.9	80.01	76.41	75.7	55.81	62.28	67.83	69.57	69.91	68.10	64.35	59.21	51.68	39.69	20.68
1596.3	79.51	75.91	75.3	54.92	61.04	67.26	69.30	69.63	67.62	63.03	58.64	50.98	38.74	19.29
1655.1	78.61	75.01	74.5	54.29	59.70	66.23	68.61	69.13	66.84	63.06	57.79	49.96	37.37	17.31

RUN NUMBER	=	413.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	4.100
PRIMARY TEMPERATURE (R)	=	529.000
SECONDARY TEMPERATURE (R)	=	530.000
PRIMARY PRESSURE RATIO	=	1.800
AREA RATIO	=	2.007
VELOCITY RATIO	=	1.001
PRIMARY VELOCITY (FT/SEC)	=	896.939
MASS FLOW RATIO	=	2.123
PRIMARY MASS FLOW (LB/SEC)	=	.220
THRUST (LBS)	=	19.149
ENVIRONMENTAL TEMPERATURE (R)	=	519.500
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	=	70.000
CALIBRATION FACTOR (MV TO OY/50 CM)	=	.011
INSTRUMENTATION NOISE FLOOR (DB)	=	50.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.86475E-01	125.0	THRUST	POWER LEVEL (DB)
			10000	153.0
500	3.51508E-03	105.5	20000	156.1
1000	2.01986E-02	113.1	40000	159.1
2000	7.90529E-02	119.0	80000	162.1
4000	1.14983E-01	120.6		
8000	9.29699E-02	119.7		
16000	5.32316E-02	117.3		
31500	2.25233E-02	113.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	84.3	91.2	94.8	92.1	97.2	80.7	75.0	98.0
20.0	83.1	90.8	94.4	93.4	88.3	81.3	76.1	98.6
25.0	82.2	89.8	94.6	94.4	87.3	82.7	78.1	99.0
30.0	80.8	88.4	94.4	95.5	91.2	86.7	80.1	99.4
35.0	79.1	87.2	93.4	95.2	92.8	87.1	81.6	99.4
40.0	77.0	85.6	92.4	94.6	92.9	88.3	83.0	98.9
45.0	76.0	84.6	91.5	93.7	93.0	90.0	85.0	98.7
50.0	75.2	83.2	90.6	92.8	92.0	89.6	85.6	97.9
55.0	74.7	82.9	89.8	92.0	91.4	89.7	86.1	97.4
60.0	74.2	82.5	89.3	91.4	91.3	89.4	85.5	97.0
65.0	74.3	81.5	88.8	90.8	90.5	89.0	85.8	96.5
70.0	73.9	81.5	88.1	90.4	89.9	88.4	85.4	95.9
75.0	73.8	81.0	87.6	89.4	89.4	88.0	84.5	95.3
80.0	73.8	80.5	87.1	89.4	89.0	87.4	84.2	94.9
85.0	73.4	80.0	86.5	88.9	89.0	87.3	83.9	94.6
90.0	73.2	79.6	86.1	88.6	89.0	87.4	83.7	94.5
95.0	72.0	79.1	85.2	88.2	88.8	87.1	83.4	94.1
100.0	71.1	78.6	84.5	87.5	88.4	86.9	83.3	93.7
105.0	70.0	77.8	84.3	87.3	88.2	86.7	83.4	93.5
110.0	69.8	76.9	83.8	79.6	87.6	86.2	82.9	92.1
115.0	69.9	75.0	82.9	80.4	87.8	85.6	82.2	92.5

MODEL THRUST = 19.149 FULL SCALE THRUST = 20000.000

PHOB.	OASPL	15.5	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	1949.4	3867.8	7735.6	15471.3
5795.6	69.31 (68.7)	73.3	59.74	66.64	69.36	67.23	61.65	53.31	43.03	29.31	4.28 -40.82 -115.97
4389.7	73.91 (72.9)	76.3	61.02	68.72	72.21	71.08	65.50	57.09	46.37	37.25	17.58 -17.27 -76.88
3549.3	77.31 (76.2)	78.6	61.96	69.50	74.50	73.98	68.41	60.72	53.22	43.66	27.17 -1.61 -48.88
3000.0	80.41 (79.2)	80.4	61.99	69.99	75.55	76.92	71.91	64.38	57.40	48.85	34.44 9.65 -38.78
2615.2	83.04 (81.6)	81.5	61.52	69.63	75.72	77.49	74.79	68.14	60.57	52.74	39.79 17.80 -17.76
2333.6	84.41 (82.7)	82.0	60.38	69.02	75.78	77.82	75.84	70.52	63.37	56.06	44.19 24.24 -7.82
2121.3	85.91 (83.8)	82.6	60.18	68.79	75.69	77.85	76.85	73.12	66.44	59.51	48.45 30.04 1.63
1958.1	86.21 (83.8)	82.5	60.07	68.14	75.48	77.80	76.55	73.56	67.97	61.35	50.90 33.68 6.38
1831.2	86.71 (84.0)	82.5	60.21	68.39	75.26	77.43	76.55	74.27	69.22	62.83	52.87 36.57 10.77
1732.1	87.01 (84.2)	82.6	60.14	68.50	75.22	77.28	76.97	74.51	69.28	63.08	53.50 37.92 13.35
1655.1	87.11 (84.1)	82.5	60.63	67.87	75.17	77.06	76.62	74.58	70.03	63.97	54.68 39.66 16.05
1596.3	87.01 (83.9)	82.3	60.56	68.14	74.79	76.99	76.32	74.32	70.04	64.09	55.02 40.42 17.53
1552.9	86.61 (83.5)	81.9	60.70	67.69	74.46	76.29	76.07	74.10	69.41	63.54	54.63 40.35 18.02
1527.1	86.41 (83.3)	81.8	60.87	67.63	74.18	76.40	75.79	73.74	69.37	63.55	54.76 40.78 18.73
1504.7	86.31 (83.2)	81.5	60.56	67.18	73.45	75.98	75.69	73.76	69.18	63.40	54.67 40.74 18.99
1500.0	86.31 (83.2)	81.4	60.38	66.84	73.35	75.76	75.97	73.83	69.01	63.24	54.54 40.64 18.87
1465.7	85.91 (82.8)	81.0	59.20	66.31	72.41	75.27	75.74	73.55	68.65	62.86	54.14 40.20 18.45
1421.1	85.51 (82.3)	80.5	58.20	65.68	71.82	74.52	75.27	73.26	68.41	62.60	53.81 39.74 17.78
1352.9	85.11 (81.9)	80.1	57.76	64.75	71.17	74.17	74.86	72.83	68.32	62.45	53.54 39.26 16.93
1300.0	84.71 (80.4)	78.3	56.48	63.80	70.46	73.10	74.25	72.11	67.51	61.58	52.49 37.90 15.82
1255.1	83.41 (80.4)	78.5	56.32	61.94	68.72	72.64	73.90	71.17	66.45	60.39	51.10 36.07 12.47

RUN NUMBER	411.00 (756.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	527.000
SECONDARY TEMPERATURE (R)	529.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	2.007
VELOCITY RATIO	1.151
PRIMARY VELOCITY (FT/SEC)	895.242
MASS FLOW RATIO	2.592
PRIMARY MASS FLOW (LB/SEC)	217
THRUST (LBS)	23,789
ENVIRONMENTAL TEMPERATURE (R)	519.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.020
INSTRUMENTATION NOISE FLOOR (DB)	55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
			THRUST	POWER LEVEL (DB)
OVERALL	9.65986E-01	129.6	10000	155.8
			20000	158.8
			40000	161.8
			80000	164.8
500	6.54562E-03	108.2		
1000	3.70132E-02	115.7		
2000	1.49036E-01	121.7		
4000	2.75374E-01	124.4		
8000	2.40323E-01	123.8		
16000	1.36597E-01	121.4		
31500	6.10974E-02	117.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	OVER
		1000	2000	4000	8000	16000		ALL
15.0	66.9	93.7	90.0	96.1	92.5	85.9	80.4	101.2
20.0	66.5	93.4	97.1	97.1	93.8	86.7	81.3	102.0
25.0	64.8	92.9	97.7	98.0	95.3	88.6	83.5	102.7
30.0	63.7	91.7	97.2	99.0	96.2	89.9	85.1	103.1
35.0	61.9	90.1	96.4	99.3	97.2	91.5	86.3	103.2
40.0	60.2	88.1	95.8	97.7	97.7	92.9	87.5	102.7
45.0	58.6	87.0	94.5	97.8	97.2	93.7	88.6	102.5
50.0	57.8	86.1	93.5	96.5	96.2	94.0	89.8	101.7
55.0	56.7	85.0	92.3	95.8	95.3	93.8	90.4	101.0
60.0	56.5	84.8	91.8	95.0	94.8	93.4	90.1	100.5
65.0	57.2	84.3	91.2	94.6	94.2	92.7	89.5	100.0
70.0	56.8	83.4	90.6	94.1	93.6	92.2	89.6	99.5
75.0	56.1	82.8	90.0	93.6	93.2	91.7	88.7	99.0
80.0	56.0	83.1	89.8	93.2	92.9	91.5	88.3	98.7
85.0	55.9	82.5	89.2	92.8	92.9	91.4	88.4	98.4
90.0	54.8	81.8	88.5	92.0	92.7	91.0	87.7	97.9
95.0	54.7	81.6	87.8	91.5	92.5	91.1	87.8	97.7
100.0	53.8	80.9	87.5	91.0	92.4	91.3	88.2	97.6
105.0	52.9	79.9	87.0	90.7	91.9	90.9	88.1	97.2
110.0	52.5	79.0	86.3	90.6	91.5	90.3	87.3	96.7
115.0	52.1	77.8	85.3	90.1	91.9	90.0	87.3	96.6

MODEL THRUST = 23,989 FULL SCALE THRUST = 20000.000

PNDL	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	4320.1	6650.3	17316.6
		17.3	34.6	69.3	138.5	277.1	554.1	1090.9	2181.9	
5795.6	73.4 (72.9)	75.3	61.41	68.20	70.40	70.20	65.00	56.98	46.16	30.99
4385.7	77.0 (77.1)	78.6	63.39	70.20	73.98	73.75	69.82	61.00	51.63	39.42
3549.1	81.0 (80.7)	81.2	63.94	71.67	76.40	76.03	73.35	65.27	56.94	46.49
3000.0	84.4 (83.2)	83.0	63.94	71.91	77.37	79.08	75.85	68.41	60.82	51.53
2615.2	86.7 (85.3)	84.3	63.31	71.56	77.78	80.52	78.08	71.37	63.01	55.32
2333.0	88.2 (86.6)	84.7	62.60	70.52	77.97	79.96	79.64	73.94	66.41	58.51
2121.1	89.2 (87.3)	85.3	61.85	70.19	77.70	80.07	80.00	75.69	68.65	61.20
1950.1	90.6 (87.4)	85.2	61.60	70.01	77.44	80.34	79.68	76.01	70.78	63.65
1831.2	91.5 (87.3)	85.1	61.18	69.53	76.61	80.17	79.43	77.19	72.17	65.33
1732.1	90.0 (87.4)	85.0	61.54	69.75	76.75	79.90	79.41	77.37	72.49	65.85
1655.1	90.0 (87.2)	84.9	62.55	69.66	76.60	79.67	79.24	77.10	72.43	66.96
1596.3	90.0 (87.1)	84.8	62.50	69.14	76.75	79.74	79.99	78.98	72.09	66.53
1552.9	89.7 (86.8)	84.6	62.09	68.74	75.94	79.47	78.82	76.78	72.32	66.06
1523.1	89.6 (86.7)	84.4	62.12	69.24	75.04	79.25	78.70	76.70	72.15	65.96
1505.7	89.7 (86.7)	84.3	62.08	68.74	75.35	78.93	78.03	76.72	72.33	66.17
1500.0	89.7 (86.3)	83.8	61.08	68.05	74.75	78.20	78.66	76.34	71.74	65.59
1495.7	89.0 (86.0)	83.5	60.88	67.79	73.94	77.50	78.43	76.41	71.76	65.60
1473.1	88.9 (85.8)	81.2	59.94	66.97	73.58	77.03	78.19	76.47	71.04	65.04
1452.9	88.3 (85.2)	82.7	58.84	65.83	72.87	76.50	77.56	75.90	71.71	65.45
1436.3	87.4 (84.4)	82.0	58.19	64.71	71.96	76.19	76.91	75.16	70.56	64.31
1454.1	87.0 (84.1)	81.4	57.45	63.17	70.63	75.37	76.98	76.45	70.22	63.75

RUN NUMBER	415.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	516.000
SECONDARY TEMPERATURE (R)	517.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	4.856
VELOCITY RATIO	.347
PRIMARY VELOCITY (FT/SEC)	885.850
MASS FLOW RATIO	1.536
PRIMARY MASS FLOW (LB/SEC)	.220
THRUST (LBS)	9.275
ENVIRONMENTAL TEMPERATURE (R)	513.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.530
ENVIRONMENTAL HUMIDITY (PER CENT)	75.000
CALIBRATION FACTOR (HV TO DY/SQ CM)	.005
INSTRUMENTATION NOISE FLOOR (DB)	43.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.73540E-02	114.4	THRUST	POWER LEVEL (DB)
500	5.67718E-04	97.5	10000	144.7
1000	2.70183E-03	104.3	20000	147.7
2000	7.48527E-03	108.7	40000	150.7
4000	7.40395E-03	108.7	80000	153.7
8000	5.23567E-03	107.2		
16000	2.63524E-03	104.2		
31500	1.32449E-03	101.2		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	76.2	84.0	87.5	89.7	76.1	66.2	66.1	90.8
20.0	74.7	82.6	86.7	84.4	78.3	70.2	67.1	90.2
25.0	73.9	81.7	85.9	84.7	80.5	73.7	69.0	90.0
30.0	72.4	79.9	84.7	84.6	81.9	76.6	71.7	89.6
35.0	71.0	77.8	83.5	83.8	82.5	78.3	73.4	89.0
40.0	69.4	75.8	82.0	82.9	82.1	78.9	74.6	88.3
45.0	68.5	74.9	81.0	81.7	81.4	78.9	75.2	87.5
50.0	68.1	74.4	79.1	80.6	80.1	77.8	74.5	86.2
55.0	67.2	73.1	78.0	79.3	79.1	77.0	73.8	85.2
60.0	66.5	73.1	77.2	78.5	78.1	76.1	73.3	84.4
65.0	66.7	72.1	76.6	77.7	77.3	75.2	72.6	83.6
70.0	66.4	71.9	76.0	76.9	76.6	74.4	71.9	83.0
75.0	66.0	71.6	75.2	76.4	76.0	73.9	71.7	82.4
80.0	65.2	71.0	74.1	75.1	75.0	72.8	70.8	81.5
85.0	64.1	70.6	73.9	74.7	74.1	72.0	70.0	80.8
90.0	64.1	70.3	72.9	74.0	73.3	71.0	69.6	80.1
95.0	63.8	69.9	72.6	73.7	73.0	70.9	69.4	79.8
100.0	64.1	69.5	72.9	73.6	72.7	70.7	69.5	79.7
105.0	63.7	69.1	72.3	73.2	72.4	70.1	68.7	79.2
110.0	63.5	68.2	71.7	72.5	71.2	69.0	68.2	78.4
115.0	63.2	67.8	71.5	72.3	71.1	68.4	67.7	78.1

MODEL THRUST = 9.275 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 10.8	BAND 21.5	SOUND 43.1	PRESSURE 86.1	LEVELS 172.3	344.6	678.3	1356.7	2691.8	5383.6	10767.2
5795.6	60.3 (59.2)	69.1	54.85	62.62	66.12	62.17	54.16	43.20	40.10	30.16	11.99	-21.51	-79.65
4305.7	64.7 (63.3)	71.1	55.80	63.63	67.68	65.37	58.95	49.94	44.74	36.42	21.94	-4.14	-48.86
3549.3	68.9 (67.2)	72.8	56.81	64.57	68.72	67.46	63.06	59.51	49.11	41.80	29.51	7.83	-28.93
3000.0	72.2 (70.2)	73.8	56.79	64.22	69.03	68.96	66.00	60.13	53.66	47.02	36.17	17.38	-14.16
2615.2	74.4 (72.0)	74.4	56.57	63.33	69.00	69.26	67.78	63.08	56.88	50.71	40.86	24.10	-3.78
2333.6	79.9 (73.1)	74.6	58.95	62.36	68.55	69.39	68.42	64.73	59.26	53.43	44.32	29.04	3.84
2121.3	76.8 (73.8)	74.7	58.85	62.29	68.31	69.03	68.53	65.65	60.91	55.34	46.79	32.62	9.44
1958.1	76.6 (73.4)	74.1	58.13	62.43	67.12	68.60	68.01	65.32	61.01	58.64	47.51	34.20	12.58
1831.2	76.5 (73.1)	73.7	55.80	61.78	66.67	67.89	67.54	65.07	61.05	58.03	48.03	35.40	14.98
1732.1	76.3 (72.8)	73.4	55.59	62.26	66.30	67.94	67.04	64.76	61.07	58.97	48.44	36.32	16.85
1655.1	76.0 (72.3)	73.0	56.19	61.58	66.15	67.18	66.65	64.26	60.79	58.78	48.45	36.74	17.99
1596.3	75.6 (71.9)	72.7	56.20	61.72	65.79	66.73	66.27	63.76	60.52	58.59	48.41	37.01	18.82
1552.9	75.5 (71.4)	72.4	56.12	61.66	65.30	66.43	65.88	63.53	60.51	58.63	48.57	37.39	19.62
1423.1	74.7 (70.8)	71.7	55.49	61.20	64.67	65.70	65.08	62.65	59.80	54.96	47.97	36.95	19.45
1505.7	73.9 (70.0)	71.0	54.45	60.90	64.21	64.99	64.26	61.87	59.14	54.31	47.37	36.45	19.12
1500.0	73.1 (69.0)	70.4	54.48	60.65	63.31	64.37	63.50	60.92	58.82	54.08	47.08	36.18	18.91
1505.7	72.0 (68.7)	70.1	54.17	60.26	62.98	64.04	63.16	60.80	58.54	53.72	46.77	35.85	18.53
1423.1	72.6 (68.5)	69.9	54.35	59.78	63.12	63.79	62.75	60.52	58.55	53.70	46.72	35.70	18.21
1552.9	71.7 (67.7)	69.2	53.76	59.14	62.34	63.20	62.32	59.69	57.59	52.71	45.65	34.47	16.70
1544.3	70.6 (66.4)	68.2	53.36	58.05	61.51	62.29	60.88	58.41	56.77	51.83	44.65	33.25	15.07
1655.1	69.7 (65.6)	67.6	52.77	57.27	61.00	61.80	60.48	57.40	55.97	50.96	43.63	31.92	13.17

NUM NUMBER	410.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	513.000
SECONDARY TEMPERATURE (R)	517.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	4.856
VELOCITY RATIO	.698
PRIMARY VELOCITY (FT/SEC)	883.271
MASS FLOW RATIO	3.279
PRIMARY MASS FLOW (LB/SEC)	.220
THRUST (LBS)	19.854
ENVIRONMENTAL TEMPERATURE (R)	513.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.530
ENVIRONMENTAL HUMIDITY (PER CENT)	72.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	.008
INSTRUMENTATION NOISE FLOOR (DB)	47.532

Reproduced from
best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	8.09966E-02	119.1	THRUST	POWER LEVEL (DB)
500	3.10138E-03	104.9	10000	146.1
1000	1.06676E-02	110.3	20000	149.1
2000	2.68099E-02	114.3	40000	152.1
4000	2.34655E-02	113.7	80000	155.1
8000	9.90831E-03	110.0		
16000	4.62332E-03	106.6		
31500	2.42062E-03	103.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	84.5	88.1	90.4	85.6	76.4	69.8	68.3	94.0
20.0	83.5	87.7	90.9	87.4	78.9	72.2	69.9	94.3
25.0	81.8	87.3	91.0	88.2	80.7	74.3	71.4	94.4
30.0	79.8	85.7	89.9	88.8	82.8	76.8	73.2	93.9
35.0	78.3	86.4	89.3	88.4	83.4	78.3	74.7	93.7
40.0	77.4	82.5	87.5	87.6	83.5	79.1	75.6	92.3
45.0	75.6	81.7	86.6	86.7	83.3	79.1	75.9	91.6
50.0	74.4	80.6	85.5	85.9	82.4	79.1	75.8	90.7
55.0	73.8	79.3	84.4	85.3	81.8	78.6	75.4	89.9
60.0	73.2	78.7	83.5	84.4	81.5	78.6	75.6	89.3
65.0	72.5	78.3	82.7	83.9	81.2	78.3	75.5	88.8
70.0	72.4	78.0	82.7	83.3	80.4	77.6	74.8	88.3
75.0	72.1	77.2	81.8	82.3	79.8	77.4	74.5	87.6
80.0	72.1	77.0	81.5	81.7	79.3	77.0	74.1	87.1
85.0	71.8	76.7	81.0	81.5	78.7	76.4	74.0	86.7
90.0	71.3	76.1	80.5	80.6	78.6	76.2	73.8	86.2
95.0	70.9	75.6	80.0	80.1	78.0	75.5	73.4	85.7
100.0	70.3	75.3	79.6	79.5	77.6	75.5	73.2	85.3
105.0	70.4	75.1	79.1	79.4	77.5	75.1	73.4	85.1
110.0	69.5	74.9	79.0	79.4	77.2	74.9	73.0	84.9
115.0	69.1	73.7	77.7	78.6	77.2	74.8	72.6	84.2

MODEL THRUST = 19.854 FULL SCALE THRUST = 20000.000

L	PNOB	OASPL	OCTAVE		BAND	SOUND	PRESSURE	LEVELS	1985.0	3938.4	7476.9	15783.7
			15.8	31.5	63.0	126.0	252.1	504.1	992.5			
5795.6	61.7 (61.1)	69.2	59.84	63.41	65.88	60.64	50.73	42.11	35.92	21.97	-3.46	-49.20 -125.28
4385.7	66.71 (65.9)	71.9	61.30	65.45	68.57	64.92	55.83	47.77	41.03	30.55	10.57	-24.77 -83.88
3549.3	70.11 (69.0)	73.8	61.34	66.83	70.48	67.58	59.64	52.09	46.30	36.00	19.86	-9.32 -57.07
3000.0	72.91 (71.5)	74.8	60.82	66.74	70.87	69.64	63.32	56.26	50.30	41.64	27.03	-1.90 -38.93
2615.2	74.71 (73.1)	75.8	60.51	66.68	71.47	70.49	65.21	59.20	53.60	45.56	32.44	10.15 -25.82
2333.6	75.61 (73.8)	75.4	60.67	65.72	70.73	70.65	66.34	61.18	55.58	48.17	36.14	15.93 -16.50
2121.3	76.41 (74.3)	75.4	59.65	65.72	70.50	70.62	66.94	62.66	57.16	50.16	38.95	20.30 -9.45
1958.1	76.81 (74.3)	75.3	59.12	65.38	70.76	70.51	68.78	67.04	57.98	51.28	40.71	23.26 -4.43
1831.2	76.81 (74.3)	75.1	59.16	64.67	69.74	70.55	68.82	67.99	58.35	51.89	41.80	25.30 -1.79
1732.1	77.11 (74.5)	74.9	59.06	64.54	69.32	70.18	67.03	63.58	59.16	52.89	43.18	27.41 2.57
1655.1	77.31 (74.5)	74.8	58.75	64.55	68.92	70.01	67.15	63.67	59.56	53.43	44.03	28.82 4.95
1596.3	77.01 (74.2)	74.7	58.91	64.51	69.23	69.76	66.60	63.52	59.25	53.29	44.06	29.26 6.15
1552.9	76.71 (73.8)	74.1	58.89	63.93	68.53	69.00	66.13	63.34	59.22	53.29	44.28	29.43 7.25
1523.1	76.41 (73.5)	73.9	58.86	63.89	68.59	68.55	65.96	63.12	59.99	53.11	44.22	29.46 7.77
1505.7	76.11 (73.0)	73.6	58.81	63.73	68.00	68.43	65.43	62.65	59.99	53.15	44.32	30.22 8.23
1500.0	75.91 (72.8)	73.1	58.39	63.21	67.50	67.54	65.36	62.47	59.99	53.09	44.26	30.22 8.30
1505.7	75.21 (72.1)	72.5	57.00	62.65	66.99	67.02	64.75	61.72	58.40	52.55	43.72	29.62 7.63
1533.1	74.81 (71.6)	72.0	57.27	62.84	66.51	66.37	64.26	61.61	58.15	52.27	43.38	29.14 6.94
1552.9	74.41 (71.3)	71.6	57.21	61.82	65.82	66.12	63.97	61.10	58.06	52.13	43.12	28.67 6.09
1596.3	73.91 (70.7)	71.2	55.90	61.45	65.53	65.86	63.40	60.58	57.39	51.39	42.20	27.42 4.20
1655.1	73.11 (70.0)	70.2	55.31	59.88	63.94	64.74	63.10	60.14	56.60	50.47	41.07	25.86 1.99

RUN NUMBER	417.00 (824.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	517.000
SECONDARY TEMPERATURE (R)	528.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	4.856
VELOCITY RATIO	1.011
PRIMARY VELOCITY (FT/SEC)	886.708
MASS FLOW RATIO	5.145
PRIMARY MASS FLOW (LB/SEC)	.217
THRUST (LBS)	36.986
ENVIRONMENTAL TEMPERATURE (R)	514.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.530
ENVIRONMENTAL HUMIDITY (PER CENT)	69.000
CALIBRATION FACTOR (MV TO DY/50 CH)	.920
INSTRUMENTATION NOISE FLOOR (DB)	55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.02333E+00	130.1	THRUST	POWER LEVEL (DB)
500	2.02060E-02	113.1	10000	154.4
1000	8.03102E-02	119.0	20000	157.4
2000	2.04759E-01	123.1	40000	160.4
4000	2.78442E-01	124.4	80000	163.5
8000	2.16237E-01	123.3		
16000	1.45301E-01	121.6		
31500	8.00749E-02	119.0		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	91.8	97.0	97.3	94.5	89.3	89.3	82.3	102.1
20.0	91.5	97.0	98.7	95.9	91.2	87.3	83.9	103.0
25.0	90.2	96.1	98.4	96.8	92.8	89.1	85.7	103.0
30.0	88.5	94.9	98.6	97.7	94.0	90.6	87.1	103.3
35.0	86.9	93.4	97.6	97.8	94.9	91.4	88.2	102.9
40.0	85.2	91.7	96.2	97.1	95.4	92.2	88.9	102.3
45.0	83.8	90.7	95.6	96.8	95.8	93.6	90.4	102.3
50.0	82.4	89.6	94.7	96.6	95.6	93.3	90.3	101.9
55.0	82.0	88.6	94.0	96.0	95.2	93.4	90.8	101.5
60.0	81.8	88.0	93.0	95.3	94.9	92.9	90.3	100.9
65.0	81.0	87.1	92.6	95.1	94.5	93.1	90.6	100.7
70.0	81.2	86.8	92.2	94.5	94.0	92.3	89.9	100.1
75.0	80.6	86.3	91.7	94.3	93.9	92.5	90.0	100.0
80.0	80.3	85.9	91.3	93.9	93.3	92.1	89.3	99.5
85.0	79.8	85.6	90.7	93.8	93.1	92.1	89.6	99.4
90.0	79.8	84.9	90.3	93.1	92.8	91.8	89.5	98.9
95.0	79.0	84.6	89.7	92.9	93.0	91.9	89.3	98.8
100.0	78.3	83.8	89.4	92.4	92.7	91.9	89.9	98.6
105.0	77.4	83.4	88.8	92.4	92.4	91.7	89.8	98.4
110.0	77.3	82.7	89.1	92.1	91.8	91.1	88.7	97.9
115.0	77.0	81.4	88.0	91.7	91.8	90.6	88.5	97.5

MODEL THRUST = 36.986 FULL SCALE THRUST = 20000.000

L%	PNDB	OASPL	OCTAVE 21.5	BAND 43.0	SOUND 86.0	PRESSURE 172.0	LEVELS 344.0	688.1	1354.6	2709.2	5375.5	10750.9	21501.9
9795.6	71.61	71.21	74.3	64.44	69.57	69.80	66.55	60.20	53.28	43.32	24.93	-8.28	-66.35 -159.23
4389.7	76.91	75.97	77.7	66.97	72.03	73.59	70.53	64.46	58.05	53.19	35.54	-9.88	-34.99 -108.00
3549.3	79.91	79.01	79.5	67.03	72.97	75.22	73.33	68.64	63.13	55.47	43.04	21.64	-15.19 -73.23
3000.0	82.71	81.71	81.2	68.06	73.25	76.89	75.81	71.52	66.49	59.43	48.46	29.02	-1.69 -51.21
2615.2	84.61	83.21	82.0	68.40	72.87	77.07	77.12	73.73	68.00	62.48	52.54	35.90	8.05 -35.50
2333.6	85.91	84.41	82.3	65.75	72.21	76.63	77.38	75.24	70.87	64.75	55.55	40.58	13.21 -23.98
2121.3	87.51	85.71	83.1	65.13	72.02	76.92	77.98	76.60	73.26	67.49	58.06	44.80	21.64 -14.25
1958.1	88.11	86.21	83.4	64.62	71.88	76.72	78.42	77.11	73.74	68.47	60.27	47.06	25.46 -7.91
1831.2	88.61	86.51	83.5	64.66	71.20	76.63	78.46	77.34	74.53	69.74	61.08	49.33	28.93 -2.47
1732.1	88.81	86.61	83.4	64.93	71.12	76.09	78.28	77.51	74.63	69.99	62.39	50.36	30.90 1.04
1655.1	89.11	86.01	83.6	64.52	70.59	76.06	78.46	77.58	75.26	70.00	63.40	51.77	33.05 4.38
1596.3	89.21	86.61	83.4	65.06	70.61	75.98	78.21	77.36	74.88	70.51	63.27	51.95	33.78 8.03
1552.9	89.21	86.81	83.5	64.67	70.38	75.70	78.23	77.55	75.36	70.47	63.05	52.75	35.00 7.92
1523.7	89.41	86.81	83.2	64.91	70.13	75.44	78.00	77.11	75.07	70.43	63.40	52.54	35.07 8.45
1405.7	89.91	86.41	83.1	64.09	69.95	74.97	78.02	77.62	75.25	70.96	63.96	53.11	35.80 9.45
1500.0	88.61	86.01	82.7	64.12	69.28	74.60	77.35	76.71	74.94	70.86	63.07	53.05	35.80 9.54
1505.7	88.51	86.01	82.6	63.34	68.93	73.94	77.06	76.92	75.06	70.66	63.67	52.82	35.81 9.16
1523.1	88.31	85.71	82.2	62.93	68.03	73.57	76.47	76.44	74.88	71.06	64.02	53.03	35.60 8.98
1552.9	87.81	85.21	81.8	61.47	67.50	72.85	76.33	75.98	74.50	70.74	63.62	52.52	34.76 7.38
1596.3	86.91	84.41	81.7	61.11	66.48	72.83	75.82	75.13	73.63	69.36	62.12	50.79	32.63 5.87
1655.1	86.11	83.71	80.3	60.56	64.93	71.67	75.01	74.63	72.81	68.71	61.31	49.64	30.96 2.29

RUN NUMBER	419.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	517.000
SECONDARY TEMPERATURE (R)	525.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	9.700
VELOCITY RATIO	1.349
PRIMARY VELOCITY (FT/SEC)	886.700
MASS FLOW RATIO	2.542
PRIMARY MASS FLOW (LB/SEC)	1.222
THRUST (LBS)	12.372
ENVIRONMENTAL TEMPERATURE (R)	514.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.530
ENVIRONMENTAL HUMIDITY (PER CENT)	73.000
CALIBRATION FACTOR (4V TO DY/SG CM)	4.000
INSTRUMENTATION NOISE FLOOR (DB)	17.532

Reproduced from
best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	8.94716E-02	119.5	THRUST POWER LEVEL (DB)
500	1.72299E-03	102.4	10000 148.6
1000	6.53602E-03	108.2	20000 151.6
2000	2.01196E-02	113.0	40000 154.6
4000	2.54663E-02	114.1	80000 157.6
8000	1.99775E-02	113.0	
16000	1.10329E-02	110.4	
31500	4.61650E-03	106.6	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
75.0	87.1	87.0	90.8	87.3	80.3	73.0	69.9	74.0
70.0	79.6	86.2	91.4	89.4	83.9	76.5	71.3	84.9
65.0	78.2	85.6	90.5	88.2	82.6	75.4	70.4	84.7
60.0	78.3	86.3	89.6	89.8	84.1	77.1	72.1	84.9
55.0	76.3	82.1	87.9	88.9	84.2	76.8	71.5	84.2
50.0	74.2	80.4	86.0	87.3	82.5	76.5	70.5	82.0
45.0	73.7	78.7	84.2	86.0	80.5	74.3	69.0	82.0
40.0	73.3	77.8	83.8	85.5	80.1	74.3	69.0	80.8
35.0	71.4	76.9	81.7	83.3	78.1	72.4	67.1	80.7
30.0	70.8	76.4	81.0	82.8	77.4	71.5	66.1	80.1
25.0	71.0	75.5	80.5	82.3	77.1	71.4	66.0	80.7
20.0	70.5	75.5	79.9	81.0	76.5	71.1	65.2	80.2
15.0	70.5	75.3	79.6	80.2	76.0	70.9	64.1	80.1
10.0	70.7	75.3	79.3	80.0	75.4	70.7	63.5	80.2
5.0	69.6	75.2	78.9	80.4	75.6	70.4	63.0	80.8
0.0	69.0	74.6	78.4	80.1	75.3	70.4	62.5	80.3
345.0	69.3	74.5	78.1	79.5	75.7	70.4	62.4	80.8
300.0	69.2	73.1	77.6	79.1	75.2	70.1	62.0	80.2
255.0	69.2	72.7	77.1	78.4	74.7	70.0	61.0	80.7
210.0	67.1	72.1	76.7	78.2	74.0	69.8	60.1	80.1
165.0	66.6	70.8	76.2	77.7	73.5	69.5	59.5	80.5

MODEL THRUST = 12.372 FULL SCALE THRUST = 20000.000

L	PRD.	OASPL	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	63000	125000
5705.4	54.51	43.71	71.2	68.69	66.37	64.10	61.87	59.45	56.30	50.39
4384.7	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
3560.3	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
3000.0	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
2615.2	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
2131.0	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
1721.3	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
1450.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
1231.2	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
1032.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
859.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
705.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
579.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
475.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
389.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
319.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
261.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
213.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
172.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
145.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
123.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
103.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
85.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
70.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
57.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
47.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
38.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
31.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
26.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
21.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
17.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
14.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
12.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
10.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
8.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
7.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
5.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
4.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
3.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
2.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39
1.1	55.01	44.23	71.5	69.13	66.61	64.32	61.88	59.45	56.30	50.39

RUN NUMBER	426.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	6.100
PRIMARY TEMPERATURE (R)	517.000
SECONDARY TEMPERATURE (R)	531.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	9.700
VELOCITY RATIO	7.705
PRIMARY VELOCITY (FT/SEC)	884.700
MASS FLOW RATIO	6.116
PRIMARY MASS FLOW (LB/SEC)	7.220
THRUST (LBS)	32.103
ENVIRONMENTAL TEMPERATURE (R)	515.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.510
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MW TO DY/50 CM)	0.014
INSTRUMENTATION NOISE FLOOR (DB)	52.625

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	3.34489E-01	125.2	THRUST POWER LEVEL (DB)
500	1.18041E-02	110.7	10000 150.2
1000	5.04755E-02	117.1	20000 153.2
2000	8.98431E-02	119.5	40000 156.2
4000	8.12520E-02	119.1	80000 159.2
8000	5.83901E-02	117.7	
16000	3.03541E-02	114.8	
31500	1.19490E-02	110.8	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	8000	16000	31500	OVERALL
15.0	88.1	83.1	83.6	80.6	83.7	76.6	73.6	88.0
20.0	88.2	83.2	83.0	80.3	84.5	79.5	74.2	88.0
25.0	87.5	82.9	83.0	82.7	87.4	82.3	74.0	89.0
30.0	86.4	82.2	83.0	83.4	89.7	82.7	74.0	100.0
35.0	86.7	82.6	84.2	83.2	90.4	85.1	81.0	89.0
40.0	83.3	82.5	83.1	82.0	91.6	86.1	83.7	88.0
45.0	82.1	82.1	81.6	81.4	90.7	87.1	83.6	87.0
50.0	81.0	80.0	80.5	81.2	90.2	86.0	82.3	86.0
55.0	80.2	80.4	80.5	80.3	88.6	87.1	82.8	86.0
60.0	78.0	80.7	80.7	80.8	89.2	86.8	82.8	85.0
65.0	78.0	80.6	80.4	80.3	88.0	86.7	82.4	85.2
70.0	78.0	80.3	80.5	80.1	88.7	86.6	82.7	85.1
75.0	76.3	80.0	80.0	80.0	88.2	86.2	82.7	85.0
80.0	76.0	80.4	80.6	80.2	87.4	85.4	81.1	84.3
85.0	77.4	80.5	80.7	80.7	87.1	85.1	81.2	83.4
90.0	77.4	80.1	80.4	80.4	86.9	84.4	81.2	83.3
95.0	76.5	80.5	80.5	80.1	86.2	83.2	81.2	82.0
100.0	76.5	80.0	80.0	80.0	85.8	82.9	80.0	82.0
105.0	76.4	80.0	80.0	80.0	86.0	82.4	80.3	81.0
110.0	76.0	79.8	80.2	80.0	85.0	82.1	80.8	81.2
115.0	76.1	79.0	80.0	80.0	86.0	81.0	78.0	81.0

MODEL THRUST = 32.103 FULL SCALE THRUST = 23000.000

ANGLE	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	8000	16000	31500	OVERALL
15.0	88.1	83.1	83.6	80.6	83.7	76.6	73.6	88.0
20.0	88.2	83.2	83.0	80.3	84.5	79.5	74.2	88.0
25.0	87.5	82.9	83.0	82.7	87.4	82.3	74.0	89.0
30.0	86.4	82.2	83.0	83.4	89.7	82.7	74.0	100.0
35.0	86.7	82.6	84.2	83.2	90.4	85.1	81.0	89.0
40.0	83.3	82.5	83.1	82.0	91.6	86.1	83.7	88.0
45.0	82.1	82.1	81.6	81.4	90.7	87.1	83.6	87.0
50.0	81.0	80.0	80.5	81.2	90.2	86.0	82.3	86.0
55.0	80.2	80.4	80.5	80.3	88.6	87.1	82.8	86.0
60.0	78.0	80.7	80.7	80.8	89.2	86.8	82.8	85.0
65.0	78.0	80.6	80.4	80.3	88.0	86.7	82.4	85.2
70.0	78.0	80.3	80.5	80.1	88.7	86.6	82.7	85.1
75.0	76.3	80.0	80.0	80.0	88.2	86.2	82.7	85.0
80.0	76.0	80.4	80.6	80.2	87.4	85.4	81.1	84.3
85.0	77.4	80.5	80.7	80.7	87.1	85.1	81.2	83.4
90.0	77.4	80.1	80.4	80.4	86.9	84.4	81.2	83.3
95.0	76.5	80.5	80.5	80.1	86.2	83.2	81.2	82.0
100.0	76.5	80.0	80.0	80.0	85.8	82.9	80.0	82.0
105.0	76.4	80.0	80.0	80.0	86.0	82.4	80.3	81.0
110.0	76.0	79.8	80.2	80.0	85.0	82.1	80.8	81.2
115.0	76.1	79.0	80.0	80.0	86.0	81.0	78.0	81.0

RUN NUMBER	• 421.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	• 4.100
PRIMARY TEMPERATURE (IN)	• 925.000
SECONDARY TEMPERATURE (IN)	• 530.000
PRIMARY PRESSURE RATIO	• 1.000
AREA RATIO	• 0.740
VELOCITY RATIO	• 1.010
PRIMARY VELOCITY (FT/SEC)	• 893.567
MASS FLOW RATIO	• 9.757
PRIMARY MASS FLOW (LB/SEC)	• 215
THRUST (LBS)	• 84.755
ENVIRONMENTAL TEMPERATURE (IN)	• 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	• 29.510
ENVIRONMENTAL HUMIDITY (PER CENT)	• 70.000
CALIBRATION FACTOR (INV TO DY/IN. CM)	• .063
INSTRUMENTATION NOISE FLOOR (DB)	• 65.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.04592E+00	133.2	THRUST	POWER LEVEL (DB)
			18000	155.1
500	8.57985E-02	119.3	20000	158.1
1000	2.86373E-01	126.5	40000	161.1
2000	5.21744E-01	127.2	80000	166.1
4000	5.43827E-01	127.4		
8000	3.54850E-01	125.6		
16000	2.01846E-01	123.1		
31500	1.01340E-01	120.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	OCTAVE 2000	OCTAVE 4000	OCTAVE 8000	OCTAVE 16000	OCTAVE 31500	OVER ALL
15.0	88.5	102.2	101.1	97.4	92.2	88.8	84.4	100.6
20.0	88.0	102.0	102.1	98.4	93.1	89.1	84.1	100.1
25.0	88.8	102.1	102.4	99.6	94.7	90.3	85.2	100.3
30.0	85.0	101.2	102.0	100.0	95.9	91.0	86.3	100.2
35.0	83.7	99.5	102.1	101.1	97.0	93.2	88.2	100.0
40.0	81.8	97.5	101.3	101.5	98.3	94.6	89.3	100.0
45.0	82.8	98.8	99.9	100.8	98.3	94.8	89.8	100.7
50.0	82.8	98.9	99.2	100.4	98.4	94.9	89.8	100.6
55.0	87.0	93.8	97.8	98.4	94.1	90.0	85.0	100.6
60.0	87.3	93.3	97.5	98.5	94.2	90.2	85.0	100.1
65.0	85.2	91.9	95.2	97.8	94.0	90.4	85.6	100.0
70.0	84.4	91.4	95.4	97.4	94.1	90.3	85.6	100.0
75.0	86.1	90.1	95.1	98.0	93.9	90.3	85.6	100.0
80.0	85.1	90.0	94.7	98.4	94.4	90.5	85.2	101.0
85.0	88.5	93.8	94.0	95.3	93.0	90.0	85.6	101.0
90.0	84.0	92.4	93.0	93.1	90.6	87.0	81.2	101.0
95.0	84.7	92.1	93.4	93.1	90.3	86.8	81.4	100.7
100.0	83.7	90.3	93.1	90.6	87.2	84.0	78.6	100.3
105.0	82.7	87.9	92.4	88.3	83.2	81.4	74.0	99.4
110.0	81.8	87.0	92.5	88.3	83.1	81.9	74.1	99.7
115.0	82.0	86.5	91.8	87.7	83.0	81.0	74.1	99.6

MODEL THRUST = 80.735 FULL SCALE THRUST = 20000.000

L	1000	1250	1500	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	25000	31500
9795.4	74.11	73.41	75.0	88.88	72.46	71.08	67.23	59.70	61.33	55.41	15.02	27.01	40.74	50.00	58.00	64.00
9795.7	75.51	74.21	76.0	78.88	73.46	70.42	67.12	64.74	55.52	48.26	27.00	40.71	50.00	58.00	64.00	64.00
9795.9	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9796.0	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9796.1	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9796.2	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9796.3	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9796.4	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9796.5	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9796.6	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9796.7	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9796.8	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9796.9	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9797.0	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9797.1	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9797.2	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9797.3	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9797.4	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9797.5	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9797.6	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9797.7	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9797.8	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9797.9	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9798.0	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9798.1	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9798.2	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9798.3	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9798.4	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9798.5	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9798.6	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9798.7	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9798.8	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9798.9	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9799.0	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9799.1	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9799.2	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9799.3	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9799.4	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9799.5	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9799.6	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9799.7	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9799.8	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00
9799.9	74.41	73.51	75.5	71.28	72.41	77.23	73.53	67.50	60.42	51.44	35.00	40.71	50.00	58.00	64.00	64.00

WIND NUMBER	422.001
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (IN)	521.000
SECONDARY TEMPERATURE (IN)	536.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	0.744
VELOCITY RATIO	1.163
PRIMARY VELOCITY (FT/SEC)	801.434
MASS FLOW RATIO	11.844
PRIMARY MASS FLOW (LB/SEC)	0.217
THRUST (LBS)	86.348
ENVIRONMENTAL TEMPERATURE (IN)	515.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.910
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (IN TO IN/50 CM)	0.974
INSTRUMENTATION NOISE FLOOR (DB)	87.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.76778E+00	137.6	THRUST	POWER LEVEL (DB)
900	2.28071E-01	123.6	10000	150.1
1200	7.50271E-01	128.8	20000	161.2
2000	1.38455E+00	131.6	40000	166.2
3000	1.38513E+00	131.6	60000	167.2
4000	1.01734E+00	130.1		
10000	6.48430E-01	126.1		
31500	3.63452E-01	125.6		

ENVIRONMENTAL DATA

TABLE F-10-60-00 OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH POWER

ANGLE DEG	900	OCTAVE 1000	8000	4000 4000	PRESSURE RATIO	LEVELS 10000	31500	OVER ALL
10.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
20.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
30.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
40.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
50.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
60.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
70.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
80.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
90.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
100.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
110.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
120.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
130.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
140.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
150.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
160.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
170.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
180.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
190.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
200.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
210.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
220.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
230.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
240.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
250.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
260.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
270.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
280.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
290.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
300.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
310.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
320.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
330.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
340.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
350.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
360.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7

MODEL THRUST = 86.348 FULL SCALE THRUST = 26600.004

ANGLE DEG	900	OCTAVE 1000	8000	4000 4000	PRESSURE RATIO	LEVELS 10000	31500	OVER ALL
10.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
20.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
30.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
40.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
50.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
60.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
70.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
80.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
90.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
100.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
110.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
120.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
130.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
140.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
150.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
160.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
170.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
180.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
190.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
200.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
210.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
220.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
230.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
240.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
250.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
260.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
270.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
280.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
290.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
300.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
310.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
320.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
330.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
340.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
350.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7
360.0	107.3	107.3	107.3	107.3	97.2	93.2	94.4	111.7

WIND NUMBER	423.000
AZIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (°F)	517.000
SECONDARY TEMPERATURE (°F)	523.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	1.000
VELOCITY RATIO	0.374
PRIMARY VELOCITY (FT/SEC)	1198.455
MASS FLOW RATIO	0.264
PRIMARY MASS FLOW (LB/SEC)	0.345
THRUST (LBS)	14.124
ENVIRONMENTAL TEMPERATURE (°F)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (INV TO DY/SQ CM)	0.040
INSTRUMENTATION NOISE FLOOR (DB)	61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.72777E+00	132.4	THRUST	POWER LEVEL (DB)
500	5.34923E-03	107.3	10000	160.9
1000	4.00935E-02	116.0	20000	163.9
2000	2.35827E-01	123.7	40000	166.9
4000	5.23366E-01	127.2	80000	169.9
8000	4.86849E-01	126.9		
16000	2.85475E-01	124.6		
31500	1.50311E-01	121.8		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	86.7	96.2	103.1	105.0	101.9	95.1	94.6	108.9
20.0	85.9	95.3	102.9	105.4	103.0	97.3	92.2	109.3
25.0	84.0	93.7	102.0	104.6	102.1	96.7	90.8	108.4
30.0	82.5	92.3	101.0	105.0	102.7	97.7	92.4	108.6
35.0	81.0	90.1	98.6	103.0	102.4	98.0	92.4	107.3
40.0	79.4	88.2	96.7	101.0	101.3	98.4	93.2	106.1
45.0	77.1	86.0	94.1	99.2	100.3	98.0	93.5	104.9
50.0	76.4	84.7	92.3	96.3	99.0	96.9	93.9	103.0
55.0	75.8	83.6	91.0	95.2	97.1	96.5	93.6	102.2
60.0	75.2	82.9	90.0	94.1	95.9	95.7	93.8	101.4
65.0	75.5	82.8	89.4	93.4	95.3	95.0	93.6	100.8
70.0	74.6	82.4	88.9	92.8	94.5	94.3	93.2	100.2
75.0	74.4	82.2	88.5	92.0	94.1	93.8	92.8	99.7
80.0	74.9	81.8	88.1	91.9	93.8	93.4	92.3	99.4
85.0	74.3	81.3	87.6	91.2	93.5	93.0	91.9	99.0
90.0	74.6	80.6	87.0	90.7	93.1	92.8	91.4	98.5
95.0	74.0	80.8	86.8	90.5	93.1	92.5	91.0	98.3
100.0	73.7	80.5	86.0	90.0	92.8	92.2	90.6	98.0
105.0	72.8	79.6	85.5	89.5	92.3	91.8	90.2	97.5
110.0	72.0	79.0	85.5	88.9	91.9	91.3	89.9	97.1
115.0	71.6	77.6	84.9	88.9	91.5	91.0	89.5	96.7

MODEL THRUST = 14.124 FULL SCALE THRUST = 10000.000

L.	PRDA.	OSPL	OCTAVE		BAND	SOUND	PRESSURE		LEVELS				
			18.8	37.6	75.2	150.3	300.7	601.3	1183.8	2367.7	4697.8	9395.6	18791.1
5795.6	42.11	41.71	82.0	60.46	69.97	76.81	78.30	74.34	66.04	52.65	36.34	6.72	-45.75
4385.7	46.11	45.51	84.9	62.12	71.54	79.06	81.33	78.18	70.58	59.11	46.04	22.89	-17.54
3549.3	47.71	46.91	86.0	62.00	71.69	79.96	82.41	79.35	72.45	62.87	51.72	32.41	-8.88
3000.0	49.21	49.01	87.6	62.03	71.80	80.44	84.25	81.54	75.25	66.93	57.04	40.26	11.65
2615.2	51.11	49.71	87.5	61.67	70.43	79.23	83.48	82.48	77.01	69.17	60.17	45.16	19.83
2333.6	51.51	49.71	87.2	61.14	69.44	75.36	82.55	82.40	74.55	70.46	62.60	48.88	25.96
2121.3	51.71	49.01	86.7	59.65	68.48	76.63	81.56	82.32	79.13	72.52	64.05	51.90	30.80
1958.1	51.01	48.51	85.5	59.59	67.88	75.49	79.41	80.73	76.85	73.85	66.35	54.36	34.64
1831.2	51.01	48.41	85.3	59.63	67.44	74.73	78.86	80.50	79.05	74.34	67.14	55.73	37.18
1732.1	51.11	48.11	85.0	59.53	67.17	74.29	78.28	79.80	78.87	75.17	68.20	57.24	39.46
1655.1	51.11	48.01	84.8	60.22	67.43	74.08	77.92	79.60	78.41	75.52	68.72	58.11	40.99
1566.3	50.71	47.61	84.5	59.62	67.01	73.90	77.63	79.11	78.44	75.49	68.03	58.50	41.87
1552.9	50.41	47.41	84.3	60.18	67.43	73.68	77.13	78.98	78.02	75.41	68.45	59.71	42.46
1523.1	50.01	47.31	84.1	60.34	67.16	73.46	77.20	78.49	77.00	75.15	68.65	58.66	42.66
1505.7	50.41	46.91	83.8	59.80	66.40	73.16	76.63	78.63	77.53	74.92	68.46	58.55	42.69
1500.4	49.91	46.61	83.4	60.16	66.14	72.47	76.12	78.24	77.35	74.43	67.99	58.10	42.29
1505.7	49.41	46.31	83.2	59.46	66.11	72.25	75.91	78.21	77.03	73.99	67.53	57.61	41.76
1523.1	49.11	45.81	82.7	58.74	65.47	71.35	75.27	77.66	76.42	73.44	66.44	56.95	40.94
1552.4	49.41	45.21	82.1	58.08	64.74	70.55	74.66	77.17	76.00	72.87	66.30	56.17	39.92
1506.3	49.01	44.41	81.3	57.01	63.15	70.41	73.91	76.48	75.22	72.19	65.53	55.20	38.57
1455.1	48.41	43.71	80.7	56.25	62.10	69.43	73.42	75.61	74.40	71.40	64.60	54.00	36.97

RUN NUMBER	=	424.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	4.100
PRIMARY TEMPERATURE (R)	=	517.000
SECONDARY TEMPERATURE (R)	=	521.000
PRIMARY PRESSURE RATIO	=	2.500
AREA RATIO	=	1.000
VELOCITY RATIO	=	.720
PRIMARY VELOCITY (FT/SEC)	=	1198.455
MASS FLOW RATIO	=	.595
PRIMARY MASS FLOW (LB/SEC)	=	.345
THRUST (LBS)	=	18.343
ENVIRONMENTAL TEMPERATURE (R)	=	516.000
ENVIRONMENTAL PRESSURE (IN.MG)	=	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	=	76.000
CALIBRATION FACTOR (INV TO OY/50 CM)	=	.040
INSTRUMENTATION NOISE FLOOR (DB)	=	61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.28976E+00	131.1	THRUST	POWER LEVEL (DB)
500	1.06066E-02	110.3	10000	158.5
1000	7.24545E-02	118.6	20000	161.5
2000	2.54592E-01	124.1	40000	164.5
4000	3.88085E-01	125.9	80000	167.5
8000	3.04134E-01	124.6		
16000	1.66442E-01	122.2		
31500	9.28211E-02	119.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	8000	16000	31500	OVERALL
15.0	90.2	98.1	102.9	103.2	98.6	92.3	87.9	107.6
20.0	89.0	97.7	103.7	103.9	99.2	92.3	88.6	108.2
25.0	87.9	96.6	102.5	103.6	99.4	92.3	89.0	107.6
30.0	86.8	97.5	101.0	102.8	100.0	94.4	90.0	107.1
35.0	84.4	92.7	98.9	101.6	100.0	94.8	90.1	105.8
40.0	82.0	90.2	96.8	99.6	99.5	96.2	91.4	104.7
45.0	80.0	88.0	94.4	97.7	98.1	95.5	91.0	103.1
50.0	78.9	86.4	92.8	96.0	96.8	94.7	91.1	101.9
55.0	78.0	85.2	91.6	94.7	95.6	93.9	90.7	100.8
60.0	77.8	84.3	90.7	93.6	94.6	93.5	91.1	100.1
65.0	77.4	84.1	89.8	92.7	94.2	93.1	91.0	99.6
70.0	76.9	83.9	89.4	92.3	93.7	92.8	91.0	99.2
75.0	77.4	83.5	89.2	91.7	93.0	92.1	91.0	98.7
80.0	76.4	82.3	88.2	90.9	92.1	91.8	90.6	98.1
85.0	76.1	82.2	87.8	90.7	92.0	91.4	90.2	97.8
90.0	75.8	82.1	87.3	90.2	91.6	91.0	89.8	97.4
95.0	75.2	81.3	86.8	89.9	91.5	90.7	89.5	97.1
100.0	75.2	81.1	86.1	89.3	90.9	90.2	89.1	96.6
105.0	74.6	80.6	86.0	89.1	90.7	89.9	88.7	96.3
110.0	74.0	80.3	85.5	88.5	90.0	89.7	88.2	95.8
115.0	73.6	79.2	85.3	88.1	89.9	89.3	88.0	95.5

MODEL THRUST = 18.343 FULL SCALE THRUST = 20000.000

L	PNOB	OSPL	OCTAVE BAND SOUND PRESSURE LEVELS										
			15.1	30.3	60.6	121.1	242.3	484.5	954.0	1907.9	3785.5	7571.1	15142.1
5795.6	81.9 (81.3)	82.9	65.86	73.72	78.53	78.54	73.25	65.21	56.27	42.80	18.24	-26.09	-100.16
4385.7	85.7 (84.8)	86.0	67.07	75.82	81.74	81.74	76.56	68.31	61.14	50.22	30.90	-3.37	-60.16
3549.3	87.7 (86.5)	87.2	67.87	76.49	82.42	83.34	78.77	70.50	64.45	55.04	36.84	10.53	-36.00
3000.0	89.7 (88.3)	88.2	67.98	78.88	82.38	84.05	80.91	74.33	67.58	59.16	45.06	20.91	-19.18
2615.2	90.7 (89.0)	88.1	66.96	75.27	81.43	84.06	82.14	76.07	69.35	61.63	48.90	27.52	-7.82
2333.6	91.6 (89.6)	87.9	65.56	73.76	80.32	83.10	82.71	76.60	72.05	64.83	53.15	33.54	-1.89
2121.3	91.4 (89.0)	87.1	64.38	72.40	78.80	81.97	82.18	76.86	72.74	65.91	55.02	36.89	7.88
1958.1	91.3 (88.8)	86.6	63.96	71.50	77.86	81.00	81.59	76.86	73.72	67.19	58.90	39.04	12.72
1831.2	91.0 (88.1)	86.1	63.72	70.86	77.29	80.26	81.01	76.65	74.05	67.74	57.93	41.87	16.41
1732.1	91.2 (88.1)	85.8	63.98	70.50	76.86	79.68	80.44	76.78	75.07	68.94	59.50	44.15	19.81
1655.1	91.4 (88.1)	85.7	63.92	70.67	76.31	79.18	80.47	76.89	75.48	69.49	60.34	45.53	22.24
1596.3	91.0 (88.1)	85.7	63.75	70.75	76.29	79.08	80.32	76.91	75.87	69.99	61.05	46.67	24.09
1552.9	91.4 (87.8)	85.5	64.47	70.63	76.31	78.69	79.86	76.47	74.16	70.36	61.58	47.51	25.46
1523.1	91.1 (87.4)	85.0	63.65	70.83	75.42	78.12	79.16	76.34	75.95	70.20	61.53	47.67	25.99
1505.7	90.9 (87.2)	84.8	63.48	69.58	75.11	78.05	79.10	76.06	75.72	70.00	61.40	47.66	26.20
1500.0	90.5 (86.8)	84.4	63.24	69.47	74.71	77.50	78.80	77.69	75.30	69.59	61.01	47.32	25.92
1505.7	90.2 (86.5)	84.1	62.63	68.68	74.13	77.22	78.59	77.38	74.97	69.25	60.65	46.91	25.45
1523.1	89.5 (85.8)	83.5	62.53	68.42	73.34	76.54	77.95	76.76	74.45	69.70	60.03	46.17	24.49
1552.9	89.0 (85.3)	83.0	61.74	67.76	73.07	76.10	77.57	76.27	73.83	68.02	59.25	45.17	23.13
1596.3	88.2 (84.6)	82.2	60.83	67.17	72.30	75.30	76.67	75.77	73.09	67.21	58.27	43.89	21.31
1655.1	87.5 (84.0)	81.6	60.16	65.72	71.67	74.61	76.22	75.10	72.48	66.49	57.33	42.53	19.23

RUN NUMBER	425.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	520.000
SECONDARY TEMPERATURE (R)	520.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	1.000
VELOCITY RATIO	0.850
PRIMARY VELOCITY (FT/SEC)	1201.928
MASS FLOW RATIO	0.753
PRIMARY MASS FLOW (LB/SEC)	0.345
THRUST (LBS)	21.120
ENVIRONMENTAL TEMPERATURE (R)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.450
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (MV TO OY/50 CM)	0.040
INSTRUMENTATION NOISE FLOOR (DB)	61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.42516E+00	131.5	THRUST	POWER LEVEL (DB)
500	1.26120E-02	111.0	10000	158.3
1000	9.70722E-02	119.9	20000	161.3
2000	2.93154E-01	124.7	40000	165.3
4000	4.41220E-01	126.4	80000	167.3
8000	3.28731E-01	125.2		
16000	1.89357E-01	122.2		
31500	8.64164E-02	119.4		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 10000	31500	OVER ALL
15.0	91.4	103.4	103.2	102.6	97.9	90.2	88.0	108.5
20.0	89.5	98.2	103.8	103.8	98.8	90.3	88.0	108.1
25.0	88.8	97.7	103.6	104.1	99.2	91.3	88.7	108.2
30.0	86.9	95.5	101.9	103.5	100.2	93.7	90.1	107.4
35.0	84.9	93.3	99.3	102.2	100.3	95.0	90.4	106.3
40.0	82.8	90.2	97.0	100.4	100.0	95.9	91.2	105.1
45.0	80.6	88.7	95.3	98.4	98.5	95.4	91.1	103.6
50.0	79.8	87.2	93.7	97.0	97.6	95.0	91.2	102.6
55.0	78.5	86.0	92.7	95.6	96.3	94.3	91.0	101.5
60.0	78.5	85.7	91.7	94.5	95.7	94.5	91.5	101.0
65.0	78.3	85.1	90.8	93.6	94.6	93.5	90.8	100.1
70.0	77.8	84.6	90.2	92.9	94.0	92.9	90.6	99.5
75.0	77.6	84.9	89.3	92.4	93.2	92.2	90.4	98.9
80.0	78.0	83.9	89.2	92.0	92.8	91.6	90.1	98.6
85.0	78.9	83.4	88.8	91.5	92.4	91.5	89.7	98.1
90.0	76.9	83.0	88.2	91.0	91.9	90.9	89.2	97.6
95.0	76.6	82.6	87.6	90.7	92.1	90.3	88.7	97.3
100.0	76.1	82.1	87.1	90.9	91.4	90.0	88.2	96.8
105.0	75.2	81.8	86.7	89.9	90.7	89.7	87.6	96.4
110.0	74.6	81.0	86.3	89.4	90.5	89.2	87.1	95.9
115.0	74.3	80.3	85.8	89.2	90.1	88.8	86.9	95.6

MODEL THRUST = 21.120 FULL SCALE THRUST = 20000.000

L	PH08	OASPL	16.2	OCTAVE 32.5	BAND 65.0	SOUND 130.0	PRESSURE 260.0	LEVELS 519.9	1023.6	2047.3	4062.0	8124.1	16248.1
5795.6	81.31 (80.7)	83.2	66.44	78.43	78.15	77.29	71.66	62.16	55.05	40.72	14.60	-32.28	-109.95
4389.7	84.91 (84.1)	85.3	66.94	79.87	81.19	81.09	75.49	65.41	59.42	47.89	27.35	-8.88	-68.38
3549.3	87.51 (86.5)	87.2	68.11	77.00	82.83	83.14	77.83	68.76	63.08	53.14	35.98	6.11	-42.62
3000.0	89.31 (88.0)	87.9	67.68	76.24	82.60	84.08	80.43	72.83	66.69	57.82	42.85	17.14	-24.51
2615.2	90.51 (89.0)	87.9	66.86	75.23	81.27	81.04	81.74	75.54	69.77	60.66	47.22	24.42	-12.27
2333.6	91.31 (89.3)	87.7	65.74	73.14	79.88	81.23	82.56	77.60	70.98	63.42	51.11	30.44	-2.62
2121.3	91.11 (89.0)	87.0	64.44	72.49	79.07	82.07	81.87	78.01	71.95	64.80	53.33	34.27	3.94
1958.1	91.31 (88.9)	86.7	64.29	71.72	78.19	81.42	81.72	78.41	73.03	66.20	55.39	37.56	9.33
1831.2	91.11 (88.4)	86.2	63.53	71.02	77.78	80.55	81.06	78.43	73.54	66.96	56.66	39.79	13.20
1732.1	91.51 (88.5)	86.1	64.01	71.22	77.21	79.94	80.97	79.10	74.64	68.25	58.34	42.23	16.92
1655.1	91.11 (88.0)	85.6	64.20	71.03	76.70	79.62	80.24	78.56	74.50	68.26	58.66	43.13	18.81
1596.3	91.01 (87.7)	85.4	64.08	70.81	76.47	79.10	79.94	78.26	74.64	68.52	59.15	44.07	20.50
1552.9	90.71 (87.4)	85.0	64.09	70.49	75.77	78.80	79.46	77.89	74.77	68.73	59.53	44.78	21.77
1523.1	90.61 (87.2)	84.8	64.71	70.54	75.87	78.25	79.19	77.65	74.71	68.73	59.65	45.12	22.50
1505.7	90.31 (86.9)	84.5	63.65	70.16	75.53	78.13	78.89	77.43	74.37	68.42	59.41	45.02	22.62
1500.0	89.81 (86.4)	84.0	63.68	69.81	75.02	77.74	78.44	76.86	73.92	67.98	59.60	44.64	22.32
1505.7	89.41 (86.1)	83.7	63.39	69.38	74.33	77.37	78.57	76.25	73.36	67.41	58.40	44.00	21.61
1523.1	88.81 (85.4)	83.1	62.77	68.72	73.79	76.62	77.79	75.83	72.79	66.81	57.74	43.21	20.58
1552.9	88.01 (84.7)	82.4	61.75	68.26	73.15	76.33	76.94	75.33	72.00	65.96	56.77	42.01	19.00
1596.3	87.21 (84.0)	81.8	60.89	67.24	72.92	75.98	76.44	74.57	71.20	65.08	55.71	40.53	17.06
1655.1	86.41 (83.2)	81.1	60.24	66.24	71.69	75.06	75.71	73.88	70.55	64.31	54.71	39.18	14.86

NO. NUMBER	420.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	520.000
SECONDARY TEMPERATURE (R)	520.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	2.007
VELOCITY RATIO	.377
PRIMARY VELOCITY (FT/SEC)	1201.420
MASS FLOW RATIO	.585
PRIMARY MASS FLOW (LB/SEC)	.343
THRUST (LBS)	15.541
ENVIRONMENTAL TEMPERATURE (R)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.450
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (INV TO DY/50 CM)	.050
INSTRUMENTATION NOISE FLOOR (DB)	63.550

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
			THRUST	POWER LEVEL (DB)
OVERALL	2.21666E+00	133.5	10000	161.5
			20000	164.6
			40000	167.6
			80000	170.6
500	5.59597E-03	107.5		
1000	4.15562E-02	116.2		
2000	2.55282E-01	124.1		
4000	6.03208E-01	127.8		
8000	6.89423E-01	128.4		
16000	4.13002E-01	126.2		
31500	2.08589E-01	123.2		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	87.3	96.6	103.4	105.2	103.9	99.5	93.6	109.8
20.0	86.1	95.6	103.9	106.5	105.3	100.2	94.5	110.8
25.0	84.8	94.4	102.8	106.0	105.0	100.9	96.1	110.4
30.0	82.9	92.2	101.3	105.7	105.9	101.6	96.2	110.5
35.0	80.8	90.6	99.2	104.1	104.3	100.7	96.3	108.9
40.0	79.1	87.7	96.1	101.1	102.9	100.5	96.7	107.2
45.0	77.5	85.7	93.7	98.9	101.1	99.8	96.2	105.7
50.0	76.8	84.5	92.0	96.7	99.3	98.4	95.3	104.0
55.0	75.6	83.1	90.8	95.1	97.7	97.6	95.5	103.0
60.0	75.2	82.8	90.1	94.0	96.3	96.4	94.9	101.9
65.0	74.4	82.6	89.2	93.6	95.7	95.4	94.4	101.2
70.0	73.6	82.5	88.8	92.9	94.6	94.6	93.7	100.4
75.0	73.2	82.1	88.6	92.5	94.3	94.2	93.1	100.0
80.0	73.2	81.7	88.2	92.0	93.8	93.8	92.5	99.5
85.0	73.6	81.3	87.2	91.1	93.3	93.3	92.0	98.9
90.0	74.4	80.7	87.0	90.4	93.0	93.0	91.4	98.5
95.0	73.6	80.3	86.3	90.2	92.6	92.7	91.0	98.1
100.0	72.6	80.1	85.9	89.5	92.5	92.5	90.3	97.8
105.0	72.1	79.4	85.2	89.0	91.7	91.8	90.0	97.2
110.0	72.1	78.8	85.2	88.4	91.3	91.3	89.5	96.7
115.0	71.5	77.7	84.7	88.6	91.0	91.0	89.0	96.4

MODEL THRUST = 15.541 FULL SCALE THRUST = 20000.000

L1	PNOR.	OASPL	OCTAVE		BAND		SOUND		PRESSURE		LEVELS	
			13.9	27.9	55.8	111.5	223.0	446.0	878.1	1755.1	3484.4	6968.8
5795.6	86.5	85.7	85.6	63.74	72.95	79.72	81.34	79.41	73.45	63.50	50.98	28.14
4285.7	90.7	89.0	89.1	64.98	74.44	82.64	85.11	83.40	77.10	64.37	50.17	45.16
3549.3	93.0	91.6	90.6	65.41	75.05	83.45	86.52	85.15	79.99	72.72	63.89	48.74
3000.0	95.3	93.6	92.1	65.05	74.33	83.35	87.72	87.58	82.54	74.92	66.99	53.72
2615.2	95.5	93.4	91.8	64.15	73.65	82.47	87.25	87.26	82.97	76.65	69.36	57.41
2333.6	95.6	93.1	91.1	63.40	71.95	80.35	85.30	86.88	81.76	78.34	71.51	60.52
2121.3	95.4	92.6	90.3	62.64	70.86	78.77	83.89	85.89	83.98	78.91	72.43	62.17
1958.1	94.9	91.9	89.4	62.42	70.28	77.82	82.48	84.85	83.34	78.90	72.68	62.98
1831.2	95.0	91.6	88.9	61.94	69.52	77.15	81.45	83.79	83.20	79.81	73.80	64.53
1732.1	94.7	91.0	88.3	62.10	69.68	76.93	80.84	82.89	82.56	79.83	73.98	65.06
1655.1	94.4	90.7	88.1	61.70	69.91	76.47	80.79	82.77	81.95	79.84	74.12	65.45
1596.3	94.1	90.2	87.7	63.18	70.65	76.42	80.42	82.00	81.53	79.49	73.87	65.41
1552.9	93.9	90.1	87.5	63.05	69.93	76.38	80.26	81.93	81.37	79.16	73.60	65.29
1523.1	93.8	89.8	87.2	63.21	69.73	76.15	79.90	81.58	81.13	78.77	73.27	65.05
1505.7	93.2	89.3	86.7	61.65	69.44	75.29	79.16	81.15	80.78	78.44	72.97	64.82
1500.0	92.8	89.0	86.3	62.56	69.46	75.10	78.48	80.88	80.48	77.82	72.35	64.22
1505.7	92.4	88.6	85.9	61.65	68.40	74.34	78.23	80.47	80.16	77.37	71.90	63.75
1523.1	91.9	88.1	85.5	60.59	68.07	73.95	77.42	80.30	79.84	76.61	71.11	62.90
1552.9	91.0	87.3	84.6	59.89	67.19	73.00	76.74	79.31	78.97	76.07	70.52	62.20
1596.3	90.3	86.5	83.9	59.45	66.17	72.76	75.96	78.53	78.23	75.33	69.88	61.22
1655.1	89.5	85.8	83.3	58.78	65.00	72.01	75.83	78.00	77.55	74.42	68.70	60.04

RUN NUMBER	427.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	520.000
SECONDARY TEMPERATURE (R)	520.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	2.007
VELOCITY RATIO	.717
PRIMARY VELOCITY (FT/SEC)	1201.928
MASS FLOW RATIO	1.206
PRIMARY MASS FLOW (LB/SEC)	.345
THRUST (LBS)	24.019
ENVIRONMENTAL TEMPERATURE (R)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.450
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.056
INSTRUMENTATION NOISE FLOOR (DB)	64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	3.11307E+00	134.9	THRUST 18000 161.1
500	1.19502E-02	110.8	20000 164.1
1000	7.03363E-02	118.5	40000 167.1
2000	3.90802E-01	125.9	80000 170.2
4000	8.41636E-01	129.3	
8000	9.56353E-01	129.8	
16000	5.62448E-01	127.5	
31500	2.79543E-01	124.5	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.7	87.5	103.4	104.2	103.0	98.8	93.1	109.0
20.0	88.9	97.9	104.6	106.1	105.5	101.2	96.2	111.1
25.0	87.8	97.2	104.0	106.5	106.1	102.6	97.6	111.5
30.0	86.9	95.7	103.7	107.3	107.0	102.5	97.6	111.9
35.0	85.1	94.0	101.9	106.6	106.3	102.5	97.8	111.1
40.0	83.0	91.3	99.4	103.7	104.9	102.3	98.6	109.5
45.0	80.8	88.9	96.5	100.9	102.9	101.2	97.6	107.5
50.0	79.9	87.0	94.9	98.9	100.9	100.0	96.6	105.8
55.0	78.8	86.4	93.5	97.2	99.5	98.6	96.5	104.6
60.0	78.3	85.8	92.0	96.0	98.5	97.8	95.7	103.7
65.0	78.3	85.8	91.6	95.6	97.3	96.8	95.2	102.8
70.0	78.3	85.4	91.0	95.1	96.6	96.1	95.0	102.3
75.0	78.0	85.1	91.1	94.7	96.0	95.7	94.3	101.8
80.0	77.6	84.6	90.6	94.1	95.3	95.2	93.7	101.2
85.0	77.0	84.2	90.0	93.6	94.9	94.7	93.3	100.7
90.0	77.0	83.3	89.6	93.0	94.5	94.3	92.7	100.2
95.0	76.6	83.3	89.1	92.6	94.7	94.0	92.0	100.0
100.0	76.2	83.0	88.7	91.7	94.2	93.4	91.5	99.4
105.0	75.0	82.0	87.8	91.4	93.2	92.8	91.0	98.7
110.0	74.6	81.3	87.9	91.2	92.8	92.6	90.7	98.4
115.0	74.6	80.4	87.3	90.7	93.2	92.2	90.2	98.2

MODEL THRUST = 24.019 FULL SCALE THRUST = 20000.000

L.	PNDB.	ON SPL	OCTAVE 17.3	BAND 34.7	SOUND 69.3	PRESSURE 138.6	LEVELS 277.2	554.5	1091.6	2183.2	4331.8	8663.6	17327.2
5795.6	83.81	83.21	82.7	65.23	61.94	77.75	78.36	76.27	69.90	58.84	43.67	16.05	-33.24 -114.28
4345.7	89.71	88.81	87.3	65.84	74.78	81.41	82.72	81.51	75.57	66.50	54.29	32.66	-5.37 -87.42
3549.1	92.71	91.51	89.6	66.56	75.89	82.74	84.99	84.14	79.28	71.01	60.56	42.48	11.13 -39.66
3000.0	95.0	93.71	91.6	67.07	75.95	83.85	87.37	86.64	80.94	73.30	64.00	48.25	21.29 -22.10
2615.2	95.91	94.31	92.0	65.55	75.42	83.21	87.80	87.18	82.38	75.29	66.79	52.68	28.79 -9.42
2333.6	96.11	94.01	91.2	65.39	73.70	81.72	85.90	86.82	83.10	77.51	69.61	56.69	35.05 .63
2121.1	95.31	93.01	90.1	64.06	72.10	79.72	84.03	85.69	83.15	77.69	70.23	58.22	35.27 6.71
1958.1	94.61	92.01	89.1	63.82	71.49	78.75	82.72	84.44	82.74	77.54	70.42	59.11	40.46 11.10
1831.2	94.31	91.31	88.4	63.35	70.91	77.97	81.56	83.64	82.05	78.25	71.40	60.62	43.00 15.34
1732.1	94.11	91.11	88.1	63.25	70.75	77.55	81.46	83.14	81.74	78.11	71.47	61.11	44.28 17.96
1655.1	93.81	90.61	87.6	63.65	71.15	77.00	80.91	82.38	81.18	78.06	71.59	61.56	45.34 20.05
1596.3	93.71	90.41	87.4	63.96	71.05	77.24	80.66	81.96	80.91	78.32	71.97	62.19	46.44 21.94
1552.9	93.51	90.11	87.2	63.89	71.01	77.01	80.51	81.59	80.71	77.94	71.68	62.08	46.68 22.77
1523.1	93.11	89.71	86.7	63.75	70.73	76.88	80.10	81.05	80.39	77.58	71.30	61.83	44.66 23.16
1505.7	92.81	89.41	86.4	63.18	70.36	76.15	79.70	80.77	80.00	77.28	71.12	61.72	46.69 23.42
1500.0	92.31	88.91	85.9	63.21	69.55	75.81	79.14	80.41	79.45	76.68	70.53	61.15	46.17 22.08
1505.7	91.91	88.61	85.7	62.92	69.52	75.28	78.73	80.60	79.34	75.94	69.78	60.38	45.35 22.08
1523.1	91.21	87.91	85.0	62.35	69.05	74.76	77.75	79.47	78.49	75.29	69.08	59.61	44.44 20.94
1552.9	90.31	87.01	84.1	60.91	67.91	73.69	77.21	78.44	77.86	74.82	68.35	58.76	43.35 19.44
1596.3	89.71	86.91	83.6	60.29	67.03	73.57	76.82	78.18	77.16	73.96	67.60	57.82	42.07 17.38
1655.1	88.91	85.81	83.0	59.97	65.77	72.66	75.96	78.27	76.80	73.08	66.58	56.55	40.33 15.05

RUN NUMBER	429.00 (757.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	520.000
SECONDARY TEMPERATURE (R)	520.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	4.856
VELOCITY RATIO	0.377
PRIMARY VELOCITY (FT/SEC)	1201.928
MASS FLOW RATIO	1.426
PRIMARY MASS FLOW (LB/SEC)	0.345
THRUST (LBS)	19.794
ENVIRONMENTAL TEMPERATURE (R)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.450
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (MV TO OY/SQ CM)	0.025
INSTRUMENTATION NOISE FLOOR (DB)	57.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	9.52865E-01	129.8	THRUST	POWER LEVEL (DB)
900	7.02370E-01	108.5	10000	155.8
1000	3.77607E-02	115.8	20000	159.8
2000	1.41244E-01	121.5	40000	162.8
4000	2.31865E-01	123.7	80000	165.9
8000	2.26347E-01	123.5		
16000	1.80321E-01	122.6		
31500	1.28303E-01	121.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
19.0	88.8	95.7	100.0	99.8	92.5	92.6	88.7	104.5
20.0	86.9	95.3	100.3	99.9	94.4	91.8	89.5	104.7
25.0	85.8	93.6	99.6	99.8	95.6	91.6	89.1	104.5
30.0	84.0	92.0	98.5	100.3	97.7	93.0	89.7	104.7
35.0	82.5	90.2	96.9	99.7	98.8	95.2	91.2	104.4
40.0	79.8	87.6	94.4	97.7	98.1	95.8	92.1	103.3
45.0	78.8	85.4	91.9	95.9	97.3	96.2	93.3	102.4
50.0	77.4	84.5	90.7	94.4	96.1	95.6	93.4	101.5
55.0	76.7	83.3	89.2	92.8	94.9	94.9	94.3	100.8
60.0	76.5	82.8	88.8	92.1	94.2	94.0	93.4	100.0
65.0	76.2	82.4	88.2	91.7	93.7	93.7	93.0	99.6
70.0	75.8	82.8	88.1	91.0	92.9	93.2	93.3	99.2
75.0	75.7	81.9	87.2	90.5	92.4	92.5	91.8	98.4
80.0	75.3	81.3	86.6	90.1	91.9	92.2	91.3	97.9
85.0	74.5	80.7	86.1	89.5	91.4	91.8	90.8	97.4
90.0	74.7	80.4	85.5	89.1	91.1	91.4	90.5	97.1
95.0	73.6	79.7	85.2	88.5	91.1	91.0	90.2	96.8
100.0	73.4	79.6	84.5	88.1	90.8	90.6	89.7	96.4
105.0	73.2	78.8	84.1	87.8	90.8	90.2	89.2	96.1
110.0	72.4	77.9	84.0	87.1	89.6	90.0	88.7	95.4
115.0	72.1	77.5	84.0	87.3	89.6	89.6	88.1	95.2

MODEL THRUST = 19.794 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	15.7	OCTAVE 31.5	BAND 62.9	SOUND 125.8	PRESSURE 251.7	LEVELS 503.4	991.0	1982.0	3932.5	7865.0	15729.9
8795.6	78.21 (77.4)	79.4	64.09	71.04	75.27	74.62	66.84	64.97	56.41	42.49	17.09	-28.60	-104.60
8385.7	82.11 (80.9)	82.1	64.70	73.08	77.95	77.45	71.36	67.35	61.41	50.14	30.14	-5.11	-63.36
3549.3	84.71 (83.4)	83.8	65.32	73.17	79.13	79.74	74.57	69.34	63.98	54.28	37.57	8.42	-39.28
3000.0	87.31 (85.8)	85.4	65.03	73.09	79.47	81.33	78.25	72.55	66.79	58.13	43.54	18.44	-22.35
2615.2	89.61 (87.7)	86.2	64.79	72.45	79.13	81.81	80.69	76.10	70.03	62.10	49.00	26.73	-9.21
2333.6	90.31 (89.0)	86.0	63.00	70.47	77.57	80.84	80.94	77.88	72.31	64.91	52.89	32.70	0.30
2121.3	91.01 (90.3)	85.9	62.88	69.45	75.97	79.87	81.02	79.16	74.56	67.56	56.37	37.74	8.02
1958.1	91.31 (90.7)	85.7	62.21	69.23	75.42	79.05	80.51	79.35	75.59	68.90	58.33	40.91	13.25
1831.2	91.71 (91.2)	85.5	62.03	68.62	74.56	78.05	81.02	79.35	77.20	70.75	60.67	44.19	18.12
1732.1	91.51 (90.9)	85.2	62.35	68.61	74.58	77.83	79.68	78.95	76.96	70.69	61.00	45.24	20.42
1655.1	91.61 (91.0)	85.2	62.41	68.66	74.44	77.79	79.62	79.10	77.05	70.93	61.54	46.35	22.50
1596.3	92.01 (91.4)	85.2	62.37	69.32	74.65	77.44	79.70	78.92	77.73	71.72	62.55	47.79	24.68
1529.9	91.11 (90.4)	84.7	62.43	68.67	73.92	77.10	78.93	78.47	76.50	70.58	61.58	47.14	24.58
1523.1	90.91 (90.2)	84.4	62.23	68.26	73.50	76.97	78.60	74.36	74.22	70.35	61.47	47.25	25.06
1505.7	90.61 (90.8)	84.0	61.54	67.74	73.16	76.44	78.16	74.08	74.88	70.34	61.23	47.13	25.17
1500.0	90.31 (90.4)	83.7	61.79	67.45	72.59	76.09	77.89	77.70	75.60	69.77	60.98	46.93	25.03
1505.7	90.91 (90.0)	83.3	60.67	66.72	72.21	75.48	77.65	77.28	74.28	69.44	60.62	46.53	24.56
1523.1	90.31 (90.5)	82.8	60.74	66.50	71.44	75.00	77.44	74.77	74.43	68.76	59.81	45.65	23.47
1552.9	89.71 (90.4)	82.4	59.94	65.56	70.87	74.48	77.30	74.17	73.93	68.00	59.00	44.56	22.00
1596.3	87.91 (94.2)	81.4	58.94	64.40	70.47	73.51	75.86	75.71	73.10	67.09	57.93	43.17	20.66
1655.1	87.11 (93.5)	80.9	58.36	63.71	70.24	73.41	75.49	74.97	72.15	66.03	56.63	41.44	17.60

RUN NUMBER	430.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	523.000
SECONDARY TEMPERATURE (R)	528.000
PRIMARY PRESSURE (WATTS)	2.500
AREA RATIO	4.856
VELOCITY RATIO	.721
PRIMARY VELOCITY (FT/SEC)	1205.390
MASS FLOW RATIO	3.025
PRIMARY MASS FLOW (LB/SEC)	.345
THRUST (LBS)	61.068
ENVIRONMENTAL TEMPERATURE (R)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (INV TO DY/50 CM)	.036
INSTRUMENTATION NOISE FLOOR (DB)	60.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.04654E+00	133.1	THRUST	POWER LEVEL (DB)
500	3.35755E-02	115.3	10000	157.0
1000	1.70448E-01	122.3	20000	160.0
2000	4.40350E-01	126.4	40000	163.0
4000	3.27411E-01	127.2	80000	166.0
8000	4.23459E-01	128.3		
16000	2.86257E-01	124.6		
31500	1.65040E-01	122.2		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.2	101.3	102.1	97.0	92.1	91.4	87.0	106.3
20.0	93.9	101.4	103.2	99.4	92.8	91.2	87.8	107.0
25.0	92.8	99.9	103.1	100.2	93.9	91.1	88.4	106.7
30.0	90.6	99.1	103.1	101.4	95.9	91.8	89.2	107.0
35.0	89.5	98.7	101.5	101.5	97.4	93.3	90.6	106.3
40.0	87.2	94.3	100.1	101.6	99.0	95.4	92.4	106.1
45.0	85.1	92.8	98.5	100.5	99.6	96.6	93.2	105.6
50.0	83.9	91.4	97.5	99.5	99.0	96.9	93.8	105.0
55.0	83.3	91.0	96.4	99.1	99.0	97.1	94.8	104.8
60.0	83.2	90.0	95.9	98.1	98.3	96.8	94.6	104.2
65.0	83.4	90.2	95.7	97.3	97.8	96.3	94.5	103.6
70.0	82.7	89.3	94.1	96.9	97.1	96.1	94.2	103.1
75.0	82.7	89.0	93.9	96.3	96.8	96.0	93.7	102.8
80.0	82.6	88.6	93.2	95.8	96.2	95.6	93.3	102.2
85.0	81.5	87.7	92.4	95.2	95.6	95.2	92.7	101.6
90.0	81.1	87.1	92.2	95.0	95.6	94.7	92.3	101.4
95.0	80.6	86.0	91.8	94.3	95.4	94.0	91.7	100.9
100.0	80.3	86.3	90.8	93.9	94.8	93.5	91.2	100.3
105.0	79.5	85.6	90.7	94.1	94.4	93.0	91.6	100.2
110.0	78.6	84.3	90.3	93.4	93.9	92.6	90.0	99.5
115.0	78.1	83.5	89.6	93.3	93.9	92.2	89.5	99.2

MODEL THRUST = 41.068 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	22.7	OCTAVE 45.3	BAND 90.6	SOUND 181.3	PRESSURE 362.5	LEVELS 725.0	1427.4	2854.8	5664.3	11328.6	22657.3
5795.6	75.7 (75.4)	78.1	67.35	73.42	74.04	69.33	62.42	58.58	47.38	28.11	-6.59	-66.95	-162.81
4389.7	80.27 (79.6)	81.2	68.44	75.91	77.69	73.49	65.07	61.98	53.02	37.71	10.72	-35.68	-108.95
3549.3	83.11 (82.3)	82.9	69.18	76.33	79.46	76.25	69.25	64.42	57.26	44.29	21.88	-16.25	-76.12
3000.0	85.81 (84.9)	84.5	68.47	76.92	80.88	79.02	72.87	67.06	60.74	49.31	29.90	-2.79	-53.85
2615.2	87.81 (86.4)	85.0	69.54	75.74	80.55	80.35	75.64	70.18	64.15	53.01	36.50	7.62	-37.28
2333.6	89.41 (88.0)	85.7	67.29	74.35	80.11	81.41	78.37	73.45	67.53	57.97	42.21	16.12	-24.27
2121.3	90.61 (89.0)	85.9	65.99	73.70	79.38	81.22	79.79	75.70	69.50	60.62	46.02	22.03	-14.96
1958.1	91.11 (89.3)	85.9	65.49	72.98	79.05	80.93	79.98	76.79	71.22	62.73	49.82	26.64	-7.74
1831.2	92.01 (90.0)	86.3	65.67	73.15	78.57	81.12	80.61	77.67	73.12	64.98	51.97	30.85	-1.50
1732.1	92.11 (89.9)	86.1	65.84	72.66	78.54	80.62	80.44	77.99	73.58	65.72	53.24	33.10	2.35
1655.1	92.11 (89.8)	86.0	66.44	73.21	78.14	80.21	80.30	77.97	74.04	66.40	54.34	34.96	5.45
1596.3	92.01 (89.6)	85.8	66.10	72.67	77.43	80.12	80.01	78.10	74.18	66.70	54.97	36.17	7.60
1552.9	91.91 (89.6)	85.7	66.34	72.57	77.42	79.80	79.96	78.27	74.00	66.64	55.14	36.77	8.89
1523.1	91.61 (89.2)	85.3	66.40	72.38	76.93	79.45	79.47	78.08	73.84	66.57	55.24	37.16	9.76
1505.7	91.11 (88.7)	84.8	65.40	71.58	76.23	78.95	79.04	77.78	73.34	66.11	54.88	36.98	9.85
1500.0	91.01 (88.6)	84.7	65.04	70.99	76.88	78.74	79.23	77.31	73.02	65.81	54.60	36.76	9.72
1505.7	90.51 (88.1)	84.1	64.45	70.51	75.59	78.23	78.78	76.56	72.19	65.16	53.92	36.02	8.90
1523.1	89.71 (87.3)	83.4	64.05	70.10	74.53	77.48	77.66	75.95	71.76	64.49	53.16	35.08	7.68
1552.9	89.41 (86.9)	83.1	63.10	69.19	74.31	77.52	77.48	75.29	71.88	64.52	53.03	34.66	6.78
1594.7	88.31 (86.0)	82.1	62.00	67.65	73.58	76.56	76.77	74.61	69.98	62.50	50.77	31.97	3.39
1655.1	87.61 (85.4)	81.6	61.12	66.50	72.62	76.16	76.47	73.83	69.03	61.39	49.33	29.98	.44

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	431.000
PRIMARY TEMPERATURE (R)	4.100
SECONDARY TEMPERATURE (R)	528.000
PRIMARY PRESSURE RATIO	527.000
AREA RATIO	2.500
VELOCITY RATIO	4.856
PRIMARY VELOCITY (FT/SEC)	849
MASS FLOW RATIO	1211.138
PRIMARY MASS FLOW (LB/SEC)	3.849
THRUST (LBS)	343
ENVIRONMENTAL TEMPERATURE (R)	55.115
ENVIRONMENTAL PRESSURE (IN.HG)	516.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.470
CALIBRATION FACTOR (MV TO OY/50 CM)	76.000
INSTRUMENTATION NOISE FLOOR (DB)	056
	64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.42843E+00	136.5	THRUST	POWER LEVEL (DB)
500	7.85035E-02	118.9	10000	159.0
1000	3.83379E-01	125.6	20000	162.1
2000	9.10568E-01	129.6	40000	165.1
4000	1.08450E+00	130.4	80000	168.1
8000	9.51702E-01	129.8		
16000	8.44752E-01	128.1		
31500	3.95030E-01	126.0		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.8	104.3	104.8	101.7	96.4	93.4	89.8	109.4
20.0	98.0	104.5	104.0	102.9	97.8	93.9	91.1	110.1
25.0	98.5	103.7	106.2	103.5	99.0	95.2	91.7	110.2
30.0	94.9	101.6	105.7	104.0	99.8	96.0	92.7	109.8
35.0	92.6	100.0	104.7	104.5	101.1	97.6	94.3	109.8
40.0	90.9	98.2	103.6	104.3	101.9	98.4	95.6	109.2
45.0	89.1	96.3	101.6	103.2	102.2	99.3	96.3	108.4
50.0	87.8	94.9	100.7	102.5	102.3	100.3	97.1	108.2
55.0	87.4	94.3	99.8	102.2	102.1	100.1	97.5	107.9
60.0	86.6	93.5	99.1	101.4	101.6	100.2	97.9	107.5
65.0	86.2	93.1	98.3	100.5	100.9	99.4	97.5	106.7
70.0	86.5	92.9	97.9	99.8	100.3	99.1	97.7	106.3
75.0	85.7	92.1	97.2	99.6	100.1	99.3	97.5	106.1
80.0	85.8	91.8	96.9	99.1	99.7	98.9	97.3	105.7
85.0	85.0	91.4	96.1	98.5	99.2	98.7	97.0	105.3
90.0	84.3	90.4	95.6	98.3	99.4	98.4	96.6	105.1
95.0	83.5	89.9	94.9	98.0	99.3	98.2	96.3	104.8
100.0	83.3	89.4	94.8	97.6	98.9	97.8	96.0	104.4
105.0	82.5	89.2	94.4	97.3	98.7	97.4	95.7	104.1
110.0	82.1	87.9	94.0	97.8	98.4	97.2	95.5	104.0
115.0	81.9	86.9	93.8	97.2	98.5	97.0	95.0	103.7

MODEL THRUST = 55.115 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	26.2	OCTAVE 52.5	BAND 105.0	SOUND 210.0	PRESSURE 420.0	LEVELS 839.9	1653.6	3307.2	6561.9	13123.8	26247.6
5795.6	78.8 (78.6)	79.9	69.69	75.18	75.47	71.84	65.02	58.21	45.79	23.83	-15.36	-82.45	-186.91
4385.7	83.2 (82.8)	83.1	71.35	77.75	79.11	75.63	69.30	62.56	53.18	39.84	5.45	-46.04	-125.83
3549.3	86.1 (85.6)	85.0	71.61	78.83	81.22	78.19	72.80	66.58	57.72	43.11	17.95	-24.30	-89.44
3000.0	88.2 (87.5)	86.0	71.55	78.20	82.16	80.26	75.24	69.43	61.61	48.79	27.08	-9.12	-64.64
2615.2	90.2 (89.3)	86.9	70.39	77.74	82.38	82.00	77.87	72.63	65.43	53.88	34.55	2.63	-46.15
2333.6	91.5 (90.3)	87.4	69.67	76.94	82.28	82.77	79.82	74.74	68.30	57.76	40.19	11.38	-32.47
2121.3	92.5 (91.1)	87.3	68.72	75.88	81.10	82.51	81.03	76.70	70.49	60.55	44.30	17.84	-22.29
1958.1	93.5 (92.0)	87.7	68.12	75.25	80.99	82.58	81.88	78.59	72.44	63.04	47.81	23.16	-14.12
1831.2	94.1 (92.4)	88.0	68.29	75.20	80.85	82.86	82.32	79.11	73.69	64.70	50.26	27.01	-8.05
1732.1	94.4 (92.6)	88.0	68.01	74.85	80.45	82.51	82.35	79.73	74.85	66.19	52.37	30.22	-3.10
1655.1	94.2 (92.3)	87.6	67.93	74.85	79.97	82.02	82.03	79.46	75.02	66.60	53.27	31.97	-0.01
1596.3	94.3 (92.3)	87.6	68.60	74.93	79.96	81.72	81.79	79.50	75.70	67.48	54.51	33.86	2.91
1552.9	94.4 (92.3)	87.5	67.99	74.43	79.47	81.77	81.80	79.98	75.83	67.75	55.05	34.89	4.76
1523.1	94.4 (92.3)	87.4	68.29	74.27	79.35	81.44	81.64	79.79	75.91	67.93	55.42	35.57	5.91
1505.7	94.1 (91.9)	87.0	67.60	74.03	78.67	80.88	81.22	79.71	75.71	67.79	55.38	35.73	6.37
1500.0	93.9 (91.7)	86.8	66.91	73.04	78.14	80.71	81.49	79.46	75.40	67.50	55.13	35.54	6.28
1505.7	93.6 (91.4)	86.5	66.09	72.52	77.45	80.37	81.32	79.21	75.05	67.12	54.72	35.07	5.71
1523.1	93.1 (90.9)	86.0	65.83	71.91	77.25	80.06	80.81	79.70	74.58	66.60	54.09	34.24	4.58
1552.9	92.5 (90.4)	85.5	64.78	71.56	76.70	80.41	80.41	78.09	74.07	65.99	53.29	33.12	2.93
1596.7	92.0 (89.9)	85.1	64.17	69.97	76.00	79.94	79.90	77.62	73.52	65.29	52.33	31.87	1.73
1655.1	91.4 (89.4)	84.5	63.66	68.66	75.27	78.81	79.60	77.05	72.55	64.14	50.80	29.50	-2.47

RUN NUMBER	432.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	527.000
SECONDARY TEMPERATURE (R)	525.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	9.788
VELOCITY RATIO	.376
PRIMARY VELOCITY (FT/SEC)	1209.990
MASS FLOW RATIO	2.793
PRIMARY MASS FLOW (LB/SEC)	.343
THRUST (LBS)	26.446
ENVIRONMENTAL TEMPERATURE (R)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.028
INSTRUMENTATION NOISE FLOOR (DB)	58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.18534E+00	130.7	THRUST	POWER LEVEL (DB)
500	1.16457E-02	110.7	10000	156.5
1000	5.64476E-02	117.5	20000	159.5
2000	2.01998E-01	123.1	40000	162.5
4000	3.11401E-01	124.9	80000	165.5
8000	2.76703E-01	124.4		
16000	2.13120E-01	123.3		
31500	1.14021E-01	120.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.1	96.8	100.1	98.4	93.9	93.9	89.1	104.8
20.0	89.3	96.8	101.1	99.9	93.3	92.4	90.1	105.2
25.0	87.9	95.6	101.5	101.3	95.3	91.5	89.6	105.8
30.0	86.0	93.9	100.4	102.4	98.7	93.5	90.1	106.2
35.0	84.4	91.9	98.2	101.1	99.2	95.3	91.6	105.4
40.0	82.4	89.7	96.4	99.5	99.1	96.7	92.5	104.6
45.0	81.6	88.2	94.4	97.5	98.1	96.2	92.2	103.3
50.0	79.7	86.9	93.0	96.2	97.3	96.2	93.3	102.7
55.0	78.5	85.6	91.5	94.9	96.6	96.2	93.5	102.0
60.0	79.4	84.9	90.6	93.9	95.4	95.1	92.8	101.0
65.0	79.1	84.4	89.8	93.0	94.5	94.5	92.7	100.3
70.0	77.7	84.1	89.4	92.5	94.3	94.3	91.8	99.9
75.0	78.3	83.4	88.6	91.9	93.6	93.6	91.2	99.3
80.0	77.8	82.8	88.0	91.0	92.6	92.8	90.7	98.5
85.0	77.3	82.6	87.7	90.5	92.4	92.3	90.2	98.1
90.0	77.3	82.0	87.4	90.2	91.4	92.0	89.7	97.7
95.0	76.1	81.7	86.7	90.0	91.8	91.7	89.3	97.4
100.0	75.3	81.5	86.2	89.4	91.2	91.3	89.0	96.9
105.0	74.8	80.9	85.8	88.9	90.7	91.0	88.6	96.6
110.0	74.8	79.9	85.8	88.6	90.7	90.6	88.3	96.3
115.0	73.9	78.8	85.6	88.7	90.3	90.3	88.0	96.0

MODEL THRUST = 26.446 FULL SCALE THRUST = 20000.000

LT	PNDB	OASPL	16.2	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	1145.4	2290.9	4545.4	9090.8	18181.6
			36.4	72.7	145.5	290.9	581.8						
5795.5	77.11 (76.4)	78.0	64.16	70.83	74.01	72.11	66.74	64.28	53.88	38.04	9.25	-41.91	-125.52
4385.7	81.73 (80.3)	81.3	65.82	73.26	77.46	76.08	68.80	66.14	59.68	46.87	24.35	-15.09	-79.09
3549.3	84.51 (83.4)	83.8	66.25	73.91	79.80	79.39	72.87	67.59	62.30	51.44	32.64	.15	-52.21
3000.0	87.41 (86.1)	85.6	65.79	73.66	80.12	81.97	77.80	71.37	65.10	55.46	39.11	11.18	-33.54
2615.2	89.11 (87.5)	85.9	65.36	72.85	79.16	81.95	79.57	74.69	68.39	59.60	44.96	20.23	-19.14
2333.6	90.21 (88.4)	86.0	64.36	71.63	76.37	81.28	80.57	77.22	70.76	62.59	49.20	26.81	-8.64
2121.3	90.31 (88.2)	85.5	64.41	70.97	77.21	80.13	80.43	77.69	71.63	61.93	51.49	30.86	-1.64
1958.7	90.91 (88.3)	85.9	63.78	70.81	76.50	79.52	80.32	78.46	73.63	66.29	54.56	35.31	5.07
1831.2	91.21 (88.5)	85.4	63.62	69.66	75.52	78.82	80.33	79.15	74.68	67.63	58.48	38.26	9.79
1732.1	90.91 (87.9)	84.9	63.97	69.43	75.15	78.31	79.62	78.58	74.80	67.76	57.05	39.66	12.57
1655.1	90.81 (87.7)	84.6	64.10	69.37	74.69	77.83	79.15	78.40	74.97	68.31	57.94	41.19	15.17
1596.3	90.81 (87.8)	84.6	62.94	69.37	74.62	77.70	79.18	78.61	74.53	67.99	57.89	41.62	16.42
1552.9	90.51 (87.3)	84.2	63.06	68.93	74.08	77.27	78.74	78.15	74.23	67.79	57.88	41.98	17.38
1523.1	89.91 (86.7)	83.6	63.50	68.48	73.13	76.63	78.30	77.92	73.92	67.59	57.77	42.11	17.93
1508.7	89.61 (86.4)	83.3	63.12	68.37	73.49	76.21	77.81	77.12	73.55	67.22	57.52	42.00	18.06
1500.0	89.21 (86.0)	82.9	63.15	67.81	73.16	75.87	77.38	76.06	73.14	66.81	57.14	41.67	17.81
1505.7	88.91 (85.7)	82.6	61.86	67.46	72.48	75.67	77.27	76.56	72.68	66.35	56.64	41.13	17.19
1523.1	88.31 (85.1)	82.0	60.95	67.14	71.82	75.02	76.55	76.03	72.27	65.89	56.11	40.46	16.27
1552.9	87.71 (84.5)	81.5	60.35	66.41	71.29	74.33	76.12	75.56	71.60	65.16	55.25	39.34	14.75
1596.3	87.01 (83.9)	80.9	60.11	65.17	71.05	73.73	75.60	74.89	71.05	64.52	54.42	38.15	12.95
1655.1	86.31 (83.2)	80.3	58.86	63.58	70.58	73.52	74.95	74.23	70.33	63.66	53.30	36.54	10.52

RUN NUMBER	433.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	523.000
SECONDARY TEMPERATURE (R)	533.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	9.788
VELOCITY RATIO	.724
PRIMARY VELOCITY (FT/SEC)	1209.390
MASS FLOW RATIO	5.942
PRIMARY MASS FLOW (LB/SEC)	.345
THRUST (LBS)	66.476
ENVIRONMENTAL TEMPERATURE (R)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	.050
INSTRUMENTATION NOISE FLOOR (DB)	63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	3.47355E+00	135.4	THRUST	POWER LEVEL (DB)
500	1.22323E-01	120.9	10000	157.1
1000	4.11479E-01	126.1	20000	160.1
2000	8.04154E-01	129.1	40000	163.1
4000	8.50830E-01	129.3	80000	166.1
8000	5.83608E-01	127.7		
16000	4.15945E-01	126.2		
31500	2.85411E-01	124.6		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	101.4	105.3	103.7	99.0	93.8	92.1	87.9	109.2
20.0	100.2	104.7	104.3	100.7	96.0	92.8	89.3	109.3
25.0	98.5	104.1	105.3	102.9	98.3	94.4	90.8	109.8
30.0	96.5	102.5	105.1	102.9	97.5	93.8	90.5	109.2
35.0	94.4	100.1	103.9	103.3	97.1	95.8	92.8	108.6
40.0	92.3	98.7	103.1	103.4	99.7	95.4	92.4	108.2
45.0	91.4	97.3	102.0	103.1	100.7	96.8	93.8	107.9
50.0	89.7	96.3	100.7	102.3	100.8	97.5	94.1	107.3
55.0	89.0	94.8	99.5	100.9	100.0	97.6	94.7	106.4
60.0	88.9	94.5	98.8	100.0	100.0	98.0	95.3	106.1
65.0	88.7	93.7	97.9	99.7	99.4	97.8	95.2	105.6
70.0	87.4	93.0	97.8	99.3	99.1	97.8	95.9	105.5
75.0	87.3	92.8	96.8	98.5	98.4	97.4	95.9	104.8
80.0	86.9	92.1	96.3	98.1	97.5	96.6	95.3	104.2
85.0	86.5	91.2	95.5	97.2	96.5	95.7	95.5	103.5
90.0	86.1	90.8	95.3	96.9	96.7	96.3	95.7	103.5
95.0	84.9	90.1	94.9	96.7	96.2	96.0	95.2	103.1
100.0	84.6	89.8	94.2	95.8	95.4	96.6	96.0	101.0
105.0	84.1	89.1	94.2	95.9	95.1	96.5	96.1	102.9
110.0	82.5	88.1	93.9	95.7	95.2	96.5	95.5	102.6
115.0	83.1	87.3	93.3	95.1	95.0	96.5	96.3	102.6

MODEL THRUST = 66.476 FULL SCALE THRUST = 20000.000

L.	PNDB	OASPL	OCTAVE 29.3	BAND 58.5	SOUND 117.0	PRESSURE 234.1	LEVELS 468.1	936.2	1843.2	3686.3	7314.1	14628.3	29256.5
5795.6	76.31	76.21	78.8	71.32	75.16	73.40	68.06	61.07	54.97	40.83	16.67	-26.12	-48.47
4385.7	80.01	80.41	81.3	72.53	76.97	76.47	72.38	65.32	59.77	48.75	29.74	-3.37	-58.05
3549.3	84.71	84.31	83.6	72.65	78.22	79.29	76.56	70.86	64.25	54.55	38.50	11.22	-34.25
3000.0	86.21	85.71	84.8	72.17	78.17	80.61	78.09	71.84	65.77	57.41	43.45	19.85	-19.04
2615.2	88.21	87.41	85.0	71.28	76.93	80.68	79.73	74.80	69.46	62.01	49.46	26.50	-5.79
2333.6	89.21	88.41	85.5	70.18	76.57	80.86	80.67	76.45	70.43	61.39	51.87	32.85	1.93
2121.3	90.41	89.41	86.0	70.12	75.95	80.56	81.48	78.37	72.86	66.27	54.48	37.91	9.53
1958.7	90.91	89.77	86.0	69.08	75.55	80.01	81.34	79.31	74.53	67.64	57.54	41.10	14.67
1831.2	91.11	89.71	85.6	68.92	74.73	79.34	80.54	79.09	75.34	69.28	59.59	44.02	19.11
1732.1	91.71	90.21	85.7	69.32	74.96	79.11	80.70	79.65	76.31	70.70	61.37	46.48	22.76
1655.1	91.81	90.11	85.6	69.56	74.54	78.67	80.76	79.48	76.64	71.13	62.08	47.72	24.92
1596.3	92.11	90.41	85.7	68.59	74.17	78.89	80.17	79.56	76.80	72.35	63.52	49.56	27.46
1552.9	92.11	90.21	85.3	68.74	74.15	78.07	79.67	79.06	76.87	72.72	64.05	50.39	28.00
1523.1	91.71	89.81	84.4	68.42	73.60	77.81	79.46	78.41	76.25	72.37	63.40	50.35	29.12
1505.7	91.51	89.61	84.2	68.22	72.65	77.00	78.60	77.47	75.55	72.70	64.20	50.87	29.85
1500.0	91.71	89.81	84.2	67.84	72.43	76.90	78.39	77.71	76.10	73.00	64.52	51.22	30.27
1505.7	91.21	89.21	83.4	68.54	71.70	76.45	78.15	77.10	75.84	72.39	63.89	50.55	29.54
1523.1	91.31	89.11	83.3	66.18	71.31	75.67	77.15	76.28	76.34	73.09	64.53	51.07	29.84
1552.9	91.11	89.11	83.0	65.49	70.44	75.56	77.01	75.76	76.44	72.95	64.78	50.62	29.04
1596.3	90.31	88.41	82.6	63.61	69.26	75.01	76.65	75.40	75.71	71.49	63.18	49.20	27.10
1655.1	90.11	88.21	81.9	63.93	68.09	74.04	75.71	75.06	75.32	72.21	63.22	48.86	26.05

RUN NUMBER	434.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	525.000
SECONDARY TEMPERATURE (R)	535.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	9.788
VELOCITY RATIO	.858
PRIMARY VELOCITY (FT/SEC)	1207.692
MASS FLOW RATIO	7.481
PRIMARY MASS FLOW (LB/SEC)	.343
THRUST (LBS)	95.515
ENVIRONMENTAL TEMPERATURE (R)	516.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	76.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.069
INSTRUMENTATION NOISE FLOOR (DB)	68.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	9.56184E+00	139.0	10000	160.0
			20000	163.0
			40000	166.0
			80000	169.0
500	3.63085E-01	125.6		
1000	1.26494E+00	131.0		
2000	2.16178E+00	133.3		
4000	2.16033E+00	133.4		
8000	1.63072E+00	132.1		
16000	1.74475E+00	130.6		
31500	8.28059E-01	129.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	105.8	109.4	107.1	102.5	98.7	96.0	91.8	113.2
20.0	104.4	109.7	109.1	104.9	100.5	97.1	93.6	114.0
25.0	103.8	109.3	109.3	105.7	102.1	98.2	95.1	114.1
30.0	101.6	107.5	109.6	107.3	103.8	100.6	97.4	114.1
35.0	99.9	106.6	109.1	107.4	103.6	100.0	96.8	113.6
40.0	98.1	104.0	107.7	107.7	104.5	100.6	97.3	112.9
45.0	96.1	101.0	106.6	107.3	104.7	101.5	98.7	112.3
50.0	94.7	101.0	105.2	106.3	104.8	101.8	99.2	111.6
55.0	93.8	99.3	103.5	105.2	104.3	101.7	98.9	110.6
60.0	92.7	98.4	102.7	104.3	104.0	101.8	99.7	110.2
65.0	92.8	98.1	101.8	103.6	103.4	101.7	99.7	109.7
70.0	92.1	97.5	101.4	102.9	102.6	100.9	99.2	109.0
75.0	91.3	96.6	100.2	102.1	102.0	101.3	100.0	108.6
80.0	90.8	95.4	99.9	101.6	101.6	101.1	100.2	108.2
85.0	90.3	95.4	99.6	101.3	101.5	101.3	100.0	108.1
90.0	89.8	94.3	99.2	101.3	101.5	101.0	100.5	108.0
95.0	89.7	93.9	98.6	100.9	101.2	101.0	100.8	107.8
100.0	88.4	93.8	98.1	100.5	101.1	101.0	100.9	107.7
105.0	88.0	93.7	98.0	100.2	100.6	101.0	100.7	107.4
110.0	87.3	93.0	98.1	100.4	100.7	101.0	100.0	107.3
115.0	86.8	92.0	97.4	99.8	100.8	101.0	100.8	107.3

MODEL THRUST = 95.515 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE 34.6	BAND 69.1	SOUND 138.2	PRESSURE 276.4	LEVELS 552.9	1105.7	2176.9	4353.7	8638.4	17276.7	34553.5
5795.6	79.4 (79.4)	81.2	74.29	77.83	75.18	69.78	63.81	55.64	39.51	11.57	-37.22	-118.10	-239.26
4385.7	84.3 (84.3)	84.5	75.35	80.53	79.76	74.96	68.84	61.28	48.80	26.93	-70.73	-72.66	-165.07
3549.3	87.3 (87.0)	86.4	76.54	82.00	81.78	77.71	72.81	65.48	55.14	36.86	5.82	-44.88	-120.24
3000.0	90.4 (90.0)	87.7	75.01	81.69	83.64	80.89	76.26	70.25	60.87	44.96	18.25	-25.06	-69.22
2615.7	91.5 (91.1)	88.5	75.34	82.02	84.37	82.24	77.52	71.40	62.81	48.55	24.89	-13.25	-69.57
2333.6	92.8 (92.1)	88.7	74.46	80.35	84.00	83.61	79.56	73.45	65.36	52.31	30.88	-3.48	-64.06
2121.3	93.6 (92.8)	88.7	73.28	79.04	83.67	84.06	80.66	75.48	68.34	56.21	36.45	4.94	-61.31
1958.1	94.0 (93.0)	88.7	72.68	78.90	82.99	83.81	81.53	76.74	70.13	58.70	40.23	10.92	-32.00
1831.2	93.8 (92.8)	88.2	72.26	77.79	81.91	83.30	81.76	77.43	70.81	59.93	42.46	14.85	-25.48
1732.1	94.3 (93.0)	88.2	71.73	77.33	81.62	82.97	81.93	78.16	72.49	62.04	45.36	19.08	-19.23
1655.1	94.4 (93.1)	88.0	72.22	77.48	81.10	82.63	81.80	78.58	73.17	63.04	46.97	21.73	-15.02
1596.3	94.2 (92.9)	87.7	71.79	77.21	80.96	82.27	81.42	78.18	73.21	63.34	47.72	23.27	-12.27
1552.9	94.8 (93.3)	87.3	71.22	76.53	80.62	81.76	81.05	78.43	74.42	64.73	49.46	25.60	-9.06
1523.1	94.9 (93.4)	87.1	70.95	75.53	79.86	81.41	80.84	78.90	74.82	65.27	50.23	26.76	-7.20
1505.7	94.9 (93.4)	87.1	70.48	75.56	79.68	81.18	80.87	79.17	74.65	65.37	50.48	27.24	-6.45
1500.0	95.1 (93.5)	87.0	70.02	74.55	79.37	81.22	80.90	78.97	75.35	65.89	51.04	27.89	-5.60
1505.7	95.1 (93.5)	86.6	69.86	74.12	78.70	80.76	80.53	78.93	75.60	66.12	51.22	27.99	-5.71
1523.1	94.8 (93.2)	86.3	68.53	73.93	78.10	80.29	80.29	78.40	75.59	65.94	50.91	27.44	-6.61
1552.9	94.4 (92.8)	85.8	67.91	73.60	77.81	79.78	79.62	78.59	75.04	65.36	50.09	26.22	-8.44
1596.3	93.6 (92.1)	85.6	67.03	72.65	77.69	79.75	79.44	78.78	73.96	64.09	48.47	24.02	-11.52
1655.1	93.4 (91.9)	85.0	66.20	71.35	76.71	78.86	79.23	77.86	74.24	64.12	48.04	22.80	-13.94

RUN NUMBER	= 435.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 307.000
SECONDARY TEMPERATURE (R)	= 514.000
PRIMARY-PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .356
PRIMARY VELOCITY (FT/SEC)	= 1356.435
MASS FLOW RATIO	= .243
PRIMARY MASS FLOW (LB/SEC)	= .432
THRUST (LBS)	= 19.760
ENVIRONMENTAL TEMPERATURE (R)	= 310.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.840
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	4.69150E+00	136.7		
500	1.25798E-02	111.0	10000	103.0
1000	1.08001E-01	120.3	20000	106.0
2000	6.23511E-01	127.9	40000	109.0
4000	1.44776E+00	131.6	80000	112.8
8000	1.43544E+00	131.6		
16000	7.37547E-01	128.7		
31500	3.26653E-01	125.1		

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.7	100.3	100.7	100.0	107.7	102.4	95.1	113.2
20.0	90.1	100.1	107.8	110.0	109.3	102.9	95.6	114.5
25.0	88.8	98.7	108.7	110.0	108.4	101.7	95.7	113.9
30.0	86.7	97.2	105.2	109.7	108.1	102.3	97.1	113.4
35.0	84.4	94.2	103.3	107.9	107.4	103.0	98.0	112.2
40.0	83.0	92.2	100.7	105.2	105.5	102.4	98.1	110.2
45.0	80.8	90.4	98.5	103.1	104.5	102.4	98.4	109.1
50.0	79.6	87.8	95.6	100.2	102.1	101.3	98.2	107.1
55.0	79.0	87.2	94.2	98.6	100.5	99.8	97.6	105.7
60.0	78.2	86.1	93.3	97.8	100.0	99.5	96.8	105.1
65.0	77.8	86.0	92.3	96.2	98.4	98.2	96.0	103.8
70.0	77.8	85.5	92.0	95.8	98.0	98.0	95.6	103.4
75.0	77.8	85.4	91.4	95.3	97.3	97.5	95.0	102.9
80.0	77.8	84.8	90.9	95.0	97.0	97.0	94.6	102.5
85.0	76.8	84.4	90.5	94.2	96.6	96.5	94.0	102.0
90.0	76.1	83.1	89.6	93.7	96.1	96.0	93.6	101.4
95.0	76.1	83.5	89.3	93.2	95.7	95.5	93.0	101.0
100.0	76.1	82.9	88.6	92.8	95.4	95.0	92.6	100.5
105.0	75.1	82.4	88.1	92.5	95.0	94.7	92.0	100.1
110.0	75.1	81.9	88.3	92.0	94.7	94.5	91.8	99.9
115.0	74.5	81.0	88.2	92.1	94.3	94.0	91.3	99.5

MODEL THRUST = 19.760 FULL SCALE THRUST = 20000.000

L	PNDB.	DASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
			15.7	31.4	62.9	125.7	251.5	502.9	990.1	1980.3	3920.1	7858.1	15716.3
5795.6	89.1 (88.5)	87.9	66.08	75.64	81.91	83.60	82.00	74.82	62.84	48.92	23.54	-22.12	-98.08
4385.7	93.5 (92.7)	91.7	67.85	77.88	85.51	87.51	86.30	78.38	67.56	56.30	36.37	1.09	-57.12
3549.3	95.0 (94.0)	93.0	68.22	78.33	86.29	89.38	87.40	79.47	70.59	60.91	44.20	15.08	-32.60
3000.0	96.7 (95.3)	94.1	67.77	78.22	86.19	90.01	88.66	81.87	74.19	65.54	50.96	25.87	-14.89
2615.2	97.6 (95.9)	94.0	66.70	76.42	85.48	90.01	89.17	83.96	76.85	68.92	55.83	33.58	-2.35
2333.6	97.3 (95.2)	93.0	66.29	75.49	83.91	88.28	88.34	84.43	78.27	70.80	58.87	38.89	6.32
2121.3	97.5 (95.1)	92.6	64.91	74.46	82.52	87.09	86.16	85.36	79.64	72.64	61.45	42.84	13.13
1958.1	96.8 (94.0)	91.3	64.40	72.53	80.35	84.56	86.58	85.05	80.42	73.73	63.17	45.76	18.11
1831.2	95.4 (93.2)	90.5	64.32	72.56	79.48	83.82	85.53	84.27	80.51	74.07	64.00	47.52	21.46
1732.1	96.4 (93.3)	90.4	64.08	71.98	79.14	83.50	85.50	84.49	80.34	74.08	64.39	48.64	23.84
1655.1	95.8 (92.4)	89.5	64.08	72.22	78.53	82.33	84.38	83.63	80.06	73.94	64.55	49.37	25.53
1596.3	95.9 (92.5)	89.5	64.40	72.02	78.49	82.27	84.28	83.76	80.03	74.02	64.86	50.11	27.01
1552.9	95.6 (92.2)	89.2	64.64	72.26	78.15	81.99	83.81	83.52	79.70	73.78	64.78	50.35	27.80
1523.1	95.4 (91.9)	89.0	64.81	71.71	77.82	81.36	83.66	83.16	79.53	73.66	64.78	50.57	28.39
1505.7	95.0 (91.5)	88.6	63.63	71.42	77.49	81.32	83.43	82.77	79.05	73.22	64.40	50.32	28.37
1500.0	94.5 (91.0)	88.1	63.20	70.18	76.71	80.66	82.93	82.33	78.67	72.85	64.05	50.01	28.13
1505.7	94.0 (90.5)	87.6	63.16	70.59	76.31	80.19	82.46	81.80	78.07	72.23	63.42	49.34	27.38
1523.1	93.4 (89.9)	87.1	63.06	69.82	75.56	79.70	82.10	81.16	77.59	71.72	62.84	48.63	26.46
1552.9	92.7 (89.3)	86.5	61.87	69.17	74.83	79.21	81.52	80.66	76.76	70.82	61.84	47.41	24.86
1596.3	92.1 (88.8)	85.9	61.63	68.41	74.87	78.46	80.42	80.24	76.20	70.19	61.03	46.28	23.19
1655.1	91.3 (88.0)	85.3	60.76	67.27	74.42	78.23	80.23	79.39	75.40	69.28	59.89	44.71	20.87

RUN NUMBER	436.000
AXIAL POSITION OF PRIMARY VRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	510.000
SECONDARY TEMPERATURE (R)	516.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	1.000
VELOCITY RATIO	.67
PRIMARY VELOCITY (FT/SEC)	1360.442
MASS FLOW RATIO	.537
PRIMARY MASS FLOW (LB/SEC)	.428
THRUST (LBS)	24.680
ENVIRONMENTAL TEMPERATURE (R)	510.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.840
ENVIRONMENTAL HUMIDITY (PER CENT)	64.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.063
INSTRUMENTATION NOISE FLOOR (DB)	65.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.36192E+00	136.4	THRUST	POWER LEVEL (DB)
500	2.48752E-02	114.0	10000	102.5
1000	1.72027E-01	122.4	20000	165.5
2000	8.19499E-01	129.1	40000	168.1
4000	1.36918E+00	131.4	80000	171.5
8000	1.08903E+00	130.4		
16000	5.86636E-01	127.5		
31500	3.00060E-01	124.8		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	8000	16000	31500	OVERALL
15.0	95.2	102.9	108.4	109.0	105.4	98.1	92.8	113.3
20.0	93.1	102.0	108.8	109.7	105.9	97.7	93.1	113.7
25.0	91.5	100.7	107.9	109.5	105.8	98.3	93.2	113.3
30.0	89.9	99.0	106.3	109.1	106.0	99.1	94.0	112.8
35.0	87.8	96.9	104.4	107.4	105.5	100.3	95.0	111.4
40.0	85.3	94.6	102.2	105.5	105.3	101.6	97.0	110.4
45.0	83.4	91.4	99.7	102.7	107.4	101.7	97.2	108.3
50.0	81.6	89.6	97.0	100.8	102.1	100.2	97.4	107.0
55.0	81.1	88.7	95.5	98.9	100.3	99.4	97.6	105.7
60.0	80.6	88.1	94.5	97.5	99.2	98.7	97.0	104.8
65.0	80.4	87.9	94.0	96.8	98.4	98.0	96.2	104.1
70.0	80.1	87.3	93.1	96.1	97.6	97.5	95.7	103.4
75.0	79.8	87.0	92.5	95.5	97.1	97.0	95.2	102.9
80.0	79.2	86.5	91.7	95.0	96.5	96.5	95.0	102.4
85.0	78.9	85.8	91.0	94.7	96.2	96.2	94.7	101.8
90.0	78.3	85.1	90.8	94.3	94.8	94.8	94.8	101.6
95.0	73.3	84.6	90.5	94.0	94.3	94.3	94.3	101.5
100.0	71.9	84.5	89.7	93.0	96.0	95.5	93.0	101.1
105.0	77.2	83.9	89.4	93.1	96.1	95.2	93.0	101.0
110.0	76.8	83.6	89.2	92.4	96.0	95.0	92.5	100.7
115.0	76.4	83.0	88.8	92.1	96.7	95.0	92.5	100.9

MODEL THRUST = 24.680 FULL SCALE THRUST = 20000.000

L*	PNDB	OASPL	OCTAVE BAND 17.6	35.1	70.3	SOUND PRESSURE LEVELS 140.5	281.0	562.1	1106.5	2213.1	4391.0	8782.1	17564.1
5795.6	87.01	86.61	87.2	69.57	77.22	82.68	82.94	78.55	69.04	58.27	42.91	14.96	-34.85 -116.61
4385.7	90.51	89.81	90.1	69.89	78.82	85.48	86.16	81.79	71.77	61.16	50.81	28.93	-9.50 -72.89
3549.3	92.61	91.71	91.6	70.14	79.32	86.52	87.92	83.72	74.79	66.38	55.81	37.53	5.86 -45.37
3000.0	94.21	93.11	92.4	70.00	79.11	86.37	89.00	85.50	77.35	69.55	60.15	44.24	17.00 -26.76
2615.2	95.21	93.81	92.3	69.12	78.17	85.68	88.56	86.35	79.98	72.28	63.71	49.45	25.32 -13.21
2333.6	96.31	94.51	92.2	67.54	76.84	84.41	87.62	87.09	82.50	75.74	67.76	54.72	32.87 -1.84
2121.3	95.81	93.61	90.9	66.54	74.50	81.79	85.71	86.11	83.03	77.39	69.56	57.43	37.30 5.47
1958.1	95.81	93.11	90.2	65.39	73.37	80.74	84.49	85.46	82.82	78.22	71.04	59.61	48.80 11.19
1831.2	95.41	92.51	89.5	65.50	73.04	79.87	83.18	84.29	82.72	79.18	72.28	61.39	43.60 15.72
1732.1	95.11	92.01	89.0	65.49	72.97	79.31	82.27	83.69	82.53	79.25	72.56	62.10	45.11 18.57
1655.1	94.91	91.81	88.7	65.63	73.13	79.20	81.99	83.35	82.27	78.95	72.42	62.29	45.93 20.44
1596.3	94.71	91.51	88.4	65.67	72.84	78.62	81.62	82.81	82.12	78.84	72.44	62.56	46.67 21.98
1552.9	94.61	91.31	88.2	65.64	72.82	78.26	81.21	82.64	81.91	78.68	72.37	62.68	47.14 23.04
1523.1	94.31	91.01	87.8	65.23	72.46	77.71	80.90	82.16	81.54	78.85	72.43	62.35	47.54 23.85
1505.7	93.91	90.51	87.4	65.02	71.69	77.10	80.32	81.45	81.16	78.27	72.06	62.58	47.42 23.96
1508.0	93.81	90.51	87.4	64.41	71.25	76.86	80.36	82.25	81.19	77.87	71.67	62.21	47.10 23.71
1505.7	93.41	90.21	87.1	64.38	70.72	76.54	79.40	82.06	80.97	77.26	71.05	61.57	46.40 22.94
1523.1	92.91	89.71	86.5	63.94	70.45	75.42	78.68	81.68	80.61	76.63	70.38	60.83	45.52 21.83
1552.9	92.51	89.31	86.2	63.04	69.74	75.23	78.78	81.56	80.09	76.42	70.11	60.42	44.88 20.78
1596.3	91.91	88.81	85.7	62.42	69.13	74.77	77.93	81.21	79.62	75.69	69.29	59.41	43.52 19.83
1655.1	91.81	88.81	85.6	61.70	68.21	73.99	77.28	81.67	79.27	75.28	68.75	58.63	42.26 16.77

RUN NUMBER	437.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	512.000
SECONDARY TEMPERATURE (R)	517.000
PRIMARY-PRESSURE RATIO	3.500
AREA RATIO	1.000
VELOCITY RATIO	.747
PRIMARY VELOCITY (FT/SEC)	1363.107
MASS FLOW RATIO	.624
PRIMARY MASS FLOW (LB/SEC)	.429
THRUST (LBS)	26.583
ENVIRONMENTAL TEMPERATURE (R)	510.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.845
ENVIRONMENTAL HUMIDITY (PER CENT)	64.000
CALIBRATION FACTOR (MV TO DY/SC CM)	.071
INSTRUMENTATION NOISE FLOOR (DB)	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.87700E+00	136.9	THRUST	POWER LEVEL (DB)
500	2.68256E-02	114.3	10000	162.6
1000	2.12359E-01	123.3	20000	165.6
2000	9.82006E-01	129.9	40000	168.7
4000	1.54889E+00	131.9	80000	171.7
8000	1.17147E+00	130.7		
16000	5.70674E-01	127.6		
31500	3.64773E-01	125.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	900	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.3	103.5	109.2	109.6	105.1	97.8	92.3	113.8
20.0	93.9	103.5	109.5	109.9	105.7	97.7	92.6	114.1
25.0	92.3	101.9	109.1	110.1	108.0	98.1	93.1	114.0
30.0	90.5	100.1	107.5	109.8	106.7	99.7	94.4	113.5
35.0	88.1	97.7	105.2	108.1	105.8	99.8	94.6	111.9
40.0	85.5	95.0	102.2	105.6	104.9	100.6	96.0	110.1
45.0	83.7	91.9	99.7	103.3	103.9	101.4	97.5	108.8
50.0	82.4	90.3	97.4	100.8	102.0	100.4	97.8	107.2
55.0	81.6	88.9	95.5	99.3	100.8	99.7	98.7	106.2
60.0	81.4	88.8	94.9	98.0	99.6	98.9	98.4	105.3
65.0	80.5	88.0	93.9	97.1	98.5	98.5	97.7	104.5
70.0	80.2	87.6	93.1	96.3	97.8	97.5	97.0	103.7
75.0	80.8	87.1	92.8	96.0	97.3	97.0	96.5	103.3
80.0	79.9	86.8	91.8	95.3	96.7	96.5	96.0	102.7
85.0	79.8	86.1	91.7	94.7	96.7	96.5	95.5	102.5
90.0	79.0	85.8	91.3	94.3	96.9	96.0	94.0	102.0
95.0	78.6	85.3	90.7	93.9	97.1	96.0	95.0	102.1
100.0	77.8	84.9	90.1	93.6	97.6	95.5	94.5	102.0
105.0	77.8	84.4	89.4	92.9	97.3	95.2	94.0	101.6
110.0	76.6	83.5	89.3	92.6	97.9	95.0	94.0	101.7
115.0	76.6	83.1	89.3	92.3	98.6	95.0	93.5	101.9

MODEL THRUST = 26.583 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	18.2	OCTAVE 36.5	BAND 72.9	SOUND 145.8	PRESSURE 291.7	LEVELS 583.3	1148.4	2296.8	4557.2	9114.4	18228.7
5795.6	87.1 (86.7)	87.4	68.34	77.55	83.09	83.23	77.82	68.02	57.01	41.14	12.28	-38.98	-122.72
4385.7	90.51 (89.9)	90.2	70.38	79.98	85.88	86.11	81.23	71.40	62.07	49.33	26.76	-12.76	-76.86
3549.3	92.8 (92.0)	92.0	70.61	80.25	87.34	88.16	93.51	74.15	65.73	54.84	36.01	3.45	-49.00
3000.0	94.7 (93.7)	92.9	70.24	79.83	87.28	89.37	95.77	77.55	69.34	59.68	43.30	15.31	-29.49
2615.2	95.2 (94.0)	92.5	69.12	78.61	86.15	88.91	96.20	79.16	71.35	62.54	47.87	23.10	-16.34
2333.6	95.6 (94.0)	91.6	67.45	76.97	84.16	87.35	96.33	81.05	74.22	66.03	52.62	30.19	-5.32
2121.3	96.0 (94.0)	91.0	66.46	74.70	82.41	85.96	96.22	82.83	76.89	69.17	56.71	36.04	3.49
1958.7	95.8 (93.7)	90.0	65.83	73.77	80.88	84.76	95.08	82.69	78.18	70.83	59.70	39.79	9.51
1831.2	95.6 (92.6)	89.5	65.70	72.95	79.58	83.28	94.30	82.58	79.85	72.78	61.61	43.36	14.85
1732.1	95.4 (92.2)	89.1	65.92	73.31	79.43	82.45	93.73	82.32	80.13	73.28	62.55	45.13	18.00
1655.1	95.3 (92.0)	88.8	65.49	72.96	78.85	81.89	93.11	82.41	80.00	73.32	62.94	46.15	20.10
1596.3	95.0 (91.5)	88.3	65.51	72.88	78.32	81.44	92.72	81.77	79.71	73.16	63.04	46.74	21.51
1552.9	94.8 (91.3)	88.2	66.33	72.56	78.31	81.36	92.45	81.50	79.49	73.04	63.11	47.18	22.54
1523.1	94.5 (90.9)	87.7	65.61	72.43	77.51	80.85	92.02	81.18	79.23	72.84	63.05	47.36	23.15
1505.7	94.3 (90.8)	87.6	65.40	71.91	77.42	80.40	92.13	81.29	78.85	72.50	62.78	47.25	23.27
1500.0	93.6 (90.4)	87.3	64.76	71.62	77.06	80.04	92.33	80.86	77.39	71.04	61.35	45.86	21.96
1505.7	93.9 (90.6)	87.3	64.37	71.07	76.41	79.60	92.57	80.82	79.31	71.96	62.95	46.71	22.73
1523.1	93.7 (90.5)	87.1	63.52	70.60	75.75	79.14	92.94	80.27	77.71	71.32	61.53	45.84	21.62
1552.9	93.0 (89.9)	86.5	63.35	69.86	74.87	78.30	92.45	79.73	76.99	70.54	60.61	44.68	20.04
1596.3	92.9 (89.9)	86.3	61.84	69.80	74.91	77.73	92.42	79.24	76.88	70.13	60.01	43.72	18.48
1655.1	92.6 (89.8)	86.2	61.52	68.04	74.19	77.17	93.15	78.88	75.74	69.06	58.68	41.89	15.84

RUN NUMBER	= 938.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 514.000
SECONDARY TEMPERATURE (R)	= 517.000
PRIMARY PRESSURE (PSI)	= 3.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .355
PRIMARY VELOCITY (FT/SEC)	= 1365.767
MASS FLOW RATIO	= .484
PRIMARY MASS FLOW (LB/SEC)	= .420
THRUST TEST	= 21.288
ENVIRONMENTAL TEMPERATURE (R)	= 511.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.840
ENVIRONMENTAL HUMIDITY (PER. CEN.)	= 64.000
CALIBRATION FACTOR (MV TO DY/50 CM)	= .089
INSTRUMENTATION NOISE FLOOR (DB)	= 68.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.42834E+00	138.1	THRUST	POWER LEVEL (DB)
500	1.45980E-02	111.6	10000	164.8
1000	1.14974E-01	120.8	20000	167.8
2000	6.60212E-01	126.2	40000	170.8
4000	1.73089E+00	132.4	80000	173.8
8000	2.08271E+00	133.2		
16000	1.19843E+00	130.8		
31500	6.26536E-01	128.0		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	900	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.0	100.9	107.4	109.4	110.0	107.6	109.2	119.2
20.0	90.7	100.4	107.8	111.0	111.5	108.1	103.4	116.3
25.0	89.7	99.4	107.2	111.1	111.3	107.0	101.8	115.9
30.0	87.7	97.2	105.8	110.7	110.6	105.7	101.7	115.2
35.0	85.0	95.1	103.8	108.9	108.9	105.4	101.6	113.7
40.0	82.8	92.2	100.4	105.7	107.6	105.0	101.3	111.8
45.0	81.0	89.9	97.8	103.1	105.1	103.9	101.0	109.9
50.0	80.2	88.0	95.6	100.7	103.2	102.6	100.2	108.2
55.0	79.0	86.4	94.2	98.9	101.6	101.4	99.1	106.7
60.0	78.4	86.0	93.3	97.7	100.1	100.1	98.7	105.6
65.0	78.1	85.5	92.5	96.5	99.1	99.4	98.3	104.8
70.0	78.1	85.5	92.0	95.7	97.9	97.9	97.7	103.8
75.0	78.1	85.3	91.3	95.1	97.5	97.5	97.0	103.3
80.0	77.6	84.9	91.3	95.0	96.9	97.0	96.0	102.7
85.0	77.1	83.9	89.9	94.0	96.0	96.5	95.5	102.0
90.0	77.1	83.9	89.9	93.8	96.1	96.0	95.0	101.7
95.0	76.5	83.0	89.2	93.2	95.4	95.8	94.5	101.1
100.0	76.5	83.6	88.8	92.9	95.3	95.0	94.5	100.9
105.0	75.3	82.5	88.5	92.1	94.6	94.5	93.5	100.2
110.0	74.6	81.5	87.6	91.4	93.9	94.0	93.5	99.7
115.0	73.8	81.1	87.9	91.8	93.0	93.5	92.5	99.3

MODEL THRUST = 21.288 FULL SCALE THRUST = 20000.000

L.	PRDB.	OSPL	OCTAVE BAND										
			16.3	32.6	65.3	130.5	261.0	522.0	1027.7	2055.4	4078.2	8156.4	16312.8
5795.6	91.7 (90.9)	89.1	67.02	75.85	82.30	84.10	83.89	79.52	70.15	55.77	29.55	-17.47	-95.34
4385.7	96.0 (94.9)	92.9	68.18	77.82	85.19	88.14	88.07	83.17	74.75	63.14	42.57	6.26	-53.40
3549.3	97.8 (96.6)	94.6	68.94	78.62	86.42	90.21	89.67	84.36	76.11	66.14	44.92	18.96	-29.90
3000.0	98.9 (97.4)	95.3	68.40	77.93	86.45	91.30	90.74	84.82	78.28	69.38	54.37	28.58	-13.18
2615.2	99.2 (97.3)	95.0	66.99	77.02	85.53	90.67	90.38	85.96	79.90	71.76	58.28	35.42	-1.37
2333.6	99.1 (96.8)	94.1	65.76	75.12	83.28	88.48	90.06	86.62	80.94	73.36	61.01	40.29	7.14
2121.3	98.3 (95.7)	92.9	64.72	73.65	81.51	86.76	88.41	86.54	81.84	74.67	63.10	44.06	13.66
1998.1	97.8 (94.9)	91.9	64.69	72.84	79.99	85.07	87.26	85.97	81.97	75.13	64.78	46.41	18.11
1831.2	97.3 (94.2)	91.1	64.06	71.40	79.25	83.84	86.26	85.40	81.58	74.99	64.65	47.74	21.08
1732.1	96.9 (93.6)	90.5	64.10	71.48	78.79	83.11	85.30	84.73	81.83	75.43	65.49	49.34	23.96
1655.1	96.7 (93.2)	90.1	64.02	71.45	78.34	82.30	84.69	84.37	81.95	75.70	66.07	50.50	26.12
1596.3	96.2 (92.4)	89.5	64.34	71.77	78.21	81.87	83.86	83.31	81.69	75.55	66.16	51.04	27.41
1552.9	95.9 (92.2)	89.2	64.58	71.79	77.72	81.52	83.66	83.15	81.20	75.23	66.01	51.21	24.15
1523.1	95.5 (91.8)	88.8	64.25	71.50	77.89	81.53	83.72	82.80	80.51	74.52	65.42	50.85	28.17
1505.7	95.0 (91.3)	88.2	63.02	70.61	76.63	80.65	82.44	82.43	80.10	74.15	65.11	50.64	28.22
1500.0	94.6 (91.0)	88.0	63.86	70.64	76.67	80.51	82.55	81.96	79.69	73.75	64.74	50.34	27.97
1505.7	94.0 (90.3)	87.4	63.26	69.78	75.46	79.83	81.80	81.34	79.17	73.22	64.19	49.75	27.30
1523.1	93.7 (89.9)	87.0	63.16	70.24	75.44	79.44	81.61	80.81	79.05	73.06	63.96	49.39	26.71
1552.9	92.7 (89.0)	86.1	61.75	68.91	74.91	78.44	80.74	80.12	77.80	71.75	62.53	47.74	24.68
1596.3	92.8 (88.2)	85.3	60.82	67.69	73.77	77.52	79.82	79.32	77.50	71.37	61.97	46.85	23.23
1655.1	91.0 (87.4)	84.6	59.75	67.02	73.83	77.44	79.20	78.53	76.08	69.83	60.20	44.63	20.25

RUN NUMBER	439.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	514.000
SECONDARY TEMPERATURE (R)	516.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	2.007
VELOCITY RATIO	.675
PRIMARY VELOCITY (FT/SEC)	1365.767
MASS FLOW RATIO	1.120
PRIMARY MASS FLOW (LB/SEC)	.428
THRUST (LBS)	31.897
ENVIRONMENTAL TEMPERATURE (R)	511.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	66.000
CALIBRATION FACTOR (MV TO DY/50 CH)	.112
INSTRUMENTATION NOISE FLOOR (DB)	70.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY -	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST:	
OVERALL	1.84260E+01	140.2	THRUST	POWER LEVEL (DB)
500	3.26162E-02	115.1	10000	165.1
1000	2.84419E-01	124.5	20000	168.2
2000	1.44434E+00	131.6	40000	171.2
4000	2.75485E+00	134.4	80000	174.2
6000	3.09571E+00	134.9		
10000	1.83408E+00	132.6		
31500	9.80844E-01	129.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	96.3	105.1	110.5	111.5	110.8	109.0	103.2	110.9
20.0	94.7	104.6	111.6	112.6	112.7	110.0	105.3	110.3
25.0	92.7	103.3	110.8	112.6	112.6	109.1	104.0	110.9
30.0	90.6	101.5	109.3	112.5	112.0	107.6	102.9	110.1
35.0	89.1	99.3	107.3	111.7	111.6	107.8	104.1	110.5
40.0	86.3	96.6	104.0	108.6	109.7	107.6	104.4	114.5
45.0	84.5	93.2	100.8	105.1	107.2	106.0	103.5	112.1
50.0	82.2	90.4	98.3	102.7	105.1	104.5	102.8	110.2
55.0	81.0	89.3	96.7	101.0	103.2	103.0	101.9	108.8
60.0	81.4	88.7	96.0	99.7	101.9	101.9	100.8	107.6
65.0	81.0	88.7	95.2	98.9	100.7	100.9	99.5	106.5
70.0	81.4	88.4	94.3	98.1	99.8	99.6	99.0	105.7
75.0	81.0	87.9	94.0	97.3	98.8	99.0	98.0	104.8
80.0	81.0	87.9	93.5	96.9	98.0	98.0	97.5	104.2
85.0	80.1	87.1	92.9	96.2	97.5	97.5	97.0	103.6
90.0	79.6	86.1	92.6	95.6	97.3	97.0	96.5	103.2
95.0	79.6	86.4	92.0	95.2	97.8	97.0	96.0	103.1
100.0	78.5	85.9	91.3	94.6	97.1	96.5	95.5	102.5
105.0	78.5	85.0	91.1	93.8	96.2	96.0	95.0	101.9
110.0	77.3	84.1	90.6	93.6	95.9	95.5	94.4	101.4
115.0	77.3	83.8	90.1	93.1	96.0	95.5	94.5	101.3

MODEL THRUST = 31.897 FULL SCALE THRUST = 20000.000

L	PM02	OASPL	OCTAVE 20.0	BAND 39.9	SOUND 79.9	PRESSURE 159.7	LEVELS 319.5	639.0	1258.0	2515.9	4991.9	9983.8	19967.7
5795.6	91.1 (90.6)	89.0	69.53	78.32	83.60	84.09	82.54	77.06	66.00	48.78	17.59	-37.36	-126.08
4389.7	90.21 (89.4)	93.0	70.40	80.27	87.14	87.92	87.23	82.55	73.07	59.31	34.98	-7.33	-75.20
3544.5	90.21 (87.2)	94.6	70.24	80.81	88.21	89.84	89.20	84.05	75.14	63.43	43.14	8.35	-47.15
2990.0	99.31 (90.1)	95.4	69.82	80.47	88.21	91.22	90.24	84.41	76.50	66.14	48.55	18.66	-28.72
2615.2	100.51 (90.0)	95.9	69.31	79.46	87.38	91.59	91.14	86.00	79.54	70.12	54.40	27.96	-13.72
2333.6	100.21 (88.3)	94.8	67.52	77.78	85.09	89.53	90.28	87.04	81.34	72.61	58.26	34.34	-3.17
2121.3	99.01 (86.8)	93.2	66.52	75.20	82.73	86.87	88.70	86.52	81.61	73.41	60.09	38.08	3.70
1930.7	98.21 (85.0)	92.0	64.91	73.13	80.93	85.20	87.27	85.75	81.92	74.12	61.59	41.04	9.08
1811.2	97.51 (84.6)	91.1	65.11	72.73	79.97	84.16	86.02	85.00	81.86	74.36	62.45	43.64	12.96
1732.1	97.01 (84.0)	90.5	65.19	72.44	79.76	83.15	85.26	84.41	81.40	74.15	62.72	44.20	15.68
1655.1	96.51 (83.4)	89.9	65.16	72.44	79.29	82.92	84.46	83.87	80.64	73.58	62.53	44.70	17.21
1596.3	96.21 (82.8)	89.3	65.90	72.81	78.76	82.46	83.97	82.89	80.62	73.70	62.93	45.43	19.02
1552.9	95.61 (82.3)	88.8	65.71	72.65	78.66	81.93	83.09	82.56	79.87	73.08	62.50	45.58	19.61
1523.7	95.31 (81.7)	88.3	65.88	72.82	78.35	81.94	82.33	81.78	79.86	72.93	62.52	45.87	20.34
1505.7	94.91 (81.3)	87.9	65.07	72.05	77.82	81.01	82.08	81.43	79.23	72.54	62.22	45.72	20.45
1500.0	94.41 (80.8)	87.5	64.60	71.12	77.58	80.91	81.95	80.90	78.80	72.12	61.82	45.38	20.19
1505.7	94.11 (80.9)	87.4	64.57	71.33	76.99	80.02	82.00	80.86	78.25	71.56	61.24	44.74	19.47
1523.1	93.31 (80.1)	86.6	63.38	70.72	76.13	79.32	81.56	80.25	77.59	70.85	60.44	43.79	18.24
1552.9	92.61 (79.3)	85.8	63.21	69.73	75.80	78.40	80.47	79.63	76.94	70.13	59.58	42.66	16.69
1596.7	91.71 (80.5)	85.1	61.73	68.97	75.07	77.90	79.93	78.80	76.03	69.11	58.34	41.94	14.43
1655.1	91.11 (80.0)	84.6	61.42	67.93	74.22	77.15	79.70	78.45	75.45	68.39	57.34	39.56	12.02

AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 448.000
PRIMARY TEMPERATURE (R)	= 4.100
SECONDARY TEMPERATURE (R)	= 515.000
PRIMARY PRESSURE RATIO	= 521.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .748
MASS FLOW RATIO	= 1367.095
PRIMARY MASS FLOW (LB/SEC)	= 1.293
THRUST (LBS)	= .428
ENVIRONMENTAL TEMPERATURE (R)	= 35.768
ENVIRONMENTAL PRESSURE (IN.HG)	= 511.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.840
CALIBRATION FACTOR (MV TO DY/50 CM)	= 64.000
INSTRUMENTATION NOISE FLOOR (DB)	= -112
	= 70.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.34594E+01	141.3	THRUST	POWER LEVEL (DB)
500	1.07262E-01	120.3	10000	105.8
1000	8.44789E-01	129.1	20000	140.8
2000	1.91231E+00	132.8	40000	171.8
4000	3.37712E+00	135.3	80000	174.8
8000	3.74075E+00	135.7		
10000	2.34455E+00	133.7		
31500	1.33266E+00	131.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	96.8	106.4	111.1	111.9	110.5	107.8	102.6	117.0
20.0	96.0	105.8	112.1	112.9	112.8	109.5	104.7	118.5
25.0	95.5	104.6	111.8	113.7	113.8	110.1	105.2	118.9
30.0	93.8	103.1	110.3	113.4	113.2	109.7	105.8	118.4
35.0	92.1	101.1	108.1	112.0	112.2	108.9	105.6	117.1
40.0	90.7	99.3	105.3	109.7	110.6	108.1	105.4	115.4
45.0	90.7	97.8	102.8	106.5	108.3	107.2	104.7	113.5
50.0	90.4	96.8	99.7	103.7	106.0	105.7	103.9	111.4
55.0	90.1	96.5	98.9	102.0	104.3	104.5	103.0	110.2
60.0	89.5	96.2	98.1	101.1	102.9	102.9	102.2	109.0
65.0	89.3	96.2	97.7	100.3	101.4	101.6	101.7	108.2
70.0	89.5	96.2	97.2	100.0	101.0	101.0	100.5	107.5
75.0	88.8	95.7	96.5	99.3	100.2	100.5	99.5	106.8
80.0	88.8	95.7	96.1	98.7	99.1	100.0	99.0	106.2
85.0	89.5	96.0	97.8	98.5	98.7	99.5	98.5	106.1
90.0	89.9	95.8	95.9	98.1	98.9	99.0	98.0	105.7
95.0	89.8	95.9	95.8	97.3	98.8	98.5	97.5	105.3
100.0	89.6	95.5	95.4	96.8	98.3	98.0	97.0	104.9
105.0	88.8	95.8	94.9	96.5	97.7	98.0	97.0	104.7
110.0	89.1	95.6	95.0	96.3	97.7	97.5	96.5	104.4
115.0	88.4	95.0	94.8	96.0	97.7	97.5	96.5	104.4

MODEL THRUST = 35.766 FULL SCALE THRUST = 20000.000

L*	PNDB.	OASPL	21.1	OCTAVE 42.3	BAND 84.6	SOUND 169.2	PRESSURE 338.3	LEVELS 676.6	1332.1	2664.1	5286.0	10572.0	21144.0
8795.6	90.8 (90.3)	88.7	69.55	79.12	83.76	83.53	81.67	76.07	64.05	45.93	13.19	-44.16	-136.09
9385.7	95.4 (95.2)	92.7	71.23	80.94	87.19	87.72	86.72	81.22	71.32	56.88	31.37	-12.76	-83.05
9849.3	98.9 (98.0)	95.1	72.52	81.56	88.72	90.38	89.63	84.34	73.35	63.09	41.67	5.58	-51.88
20000.0	100.0 (99.2)	96.1	72.26	81.60	88.75	91.63	90.84	85.86	78.40	67.57	49.18	18.04	-30.99
2015.2	100.9 (99.5)	96.0	71.81	80.77	87.69	91.43	91.13	86.50	80.17	70.35	53.93	26.40	-16.72
2333.6	100.8 (99.0)	95.2	71.36	80.00	85.88	90.12	90.59	86.96	81.49	72.41	57.43	32.55	-6.26
2121.3	100.1 (98.0)	94.0	72.19	79.25	84.21	87.84	89.25	87.04	82.10	73.56	59.68	36.78	1.23
1998.1	99.0 (96.7)	92.8	72.80	79.03	81.86	85.69	87.60	86.33	82.32	74.21	61.16	39.79	6.75
1831.2	98.5 (96.0)	92.0	72.88	79.31	81.63	84.66	86.52	85.86	82.21	74.44	62.04	41.87	10.77
1732.1	98.0 (95.3)	91.4	72.73	79.48	81.36	84.24	85.65	84.85	82.04	74.52	62.63	43.34	13.61
1655.1	97.9 (95.1)	91.6	72.96	79.88	81.31	83.79	85.14	83.98	82.13	74.81	63.31	44.79	16.40
1596.3	97.4 (94.6)	90.7	73.44	80.11	81.16	83.78	84.48	83.75	81.33	74.16	62.97	45.00	17.51
1552.9	96.9 (94.0)	89.3	73.00	79.94	80.74	83.84	83.93	83.52	80.67	73.62	62.65	45.08	18.25
1523.1	96.5 (93.7)	89.9	73.17	80.11	80.47	82.89	83.88	83.18	80.45	73.47	62.66	45.37	19.00
1505.7	96.4 (93.6)	90.0	73.95	80.44	82.06	82.80	82.77	82.80	80.01	73.09	62.36	45.24	19.13
1500.0	96.0 (93.1)	89.6	74.46	80.33	82.02	82.43	83.01	82.31	79.56	72.64	61.44	44.88	18.81
1505.7	95.6 (92.7)	89.1	74.27	80.38	80.01	81.69	82.70	81.79	79.09	72.16	61.43	44.31	18.26
1523.1	95.9 (92.1)	88.6	74.01	79.85	79.71	81.05	82.22	81.17	78.39	71.42	60.60	43.32	16.95
1552.9	96.5 (91.7)	88.2	73.80	80.03	79.04	80.56	81.43	80.98	78.17	71.12	60.15	42.58	15.76
1596.3	97.9 (91.1)	87.7	73.11	79.53	78.90	80.15	81.18	80.26	77.37	70.20	59.01	41.04	13.55
1655.1	93.4 (90.8)	87.3	72.08	79.47	78.37	79.49	80.93	79.90	76.94	69.62	58.13	39.61	11.21

RUN NUMBER	441.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	517.000
SECONDARY TEMPERATURE (R)	523.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	4.856
VELOCITY RATIO	0.356
PRIMARY VELOCITY (FT/SEC)	1369.747
MASS FLOW RATIO	1.223
PRIMARY MASS FLOW (LB/SEC)	0.426
THRUST (LBS)	26.148
ENVIRONMENTAL TEMPERATURE (R)	513.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	63.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.045
INSTRUMENTATION NOISE FLOOR (DB)	62.585

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.78030E+00	134.4	THRUST	POWER LEVEL (DB)
500	1.56713E-02	112.0	10000	150.3
1000	1.01299E-01	120.1	20000	163.3
2000	4.62598E-01	126.7	40000	166.3
4000	7.93590E-01	129.0	80000	169.3
8000	7.21880E-01	128.6		
16000	4.57100E-01	126.6		
31500	2.28161E-01	123.6		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.0	100.5	105.4	104.8	99.2	98.0	93.2	109.7
20.0	91.4	99.7	105.7	105.6	100.5	95.0	92.7	110.0
25.0	89.8	98.4	105.3	106.3	102.6	98.2	93.2	110.3
30.0	87.6	96.6	104.0	106.8	103.8	98.0	93.9	110.4
35.0	85.7	94.3	102.2	105.8	104.6	99.8	94.8	110.0
40.0	83.4	91.5	99.4	103.4	103.7	100.6	96.1	108.5
45.0	82.0	89.7	97.0	101.1	102.3	100.8	96.7	107.2
50.0	80.6	87.8	94.5	98.4	100.3	99.4	96.2	105.3
55.0	80.1	86.8	93.6	97.2	99.4	98.9	96.0	104.5
60.0	79.5	86.2	92.9	96.5	98.7	98.5	95.5	104.0
65.0	79.0	86.1	91.9	95.5	97.6	97.5	95.0	103.1
70.0	78.4	85.8	91.0	94.9	96.8	96.5	94.5	102.3
75.0	78.8	85.2	90.8	94.2	96.2	96.0	94.0	101.7
80.0	77.9	84.2	90.1	93.6	95.8	95.5	93.5	101.2
85.0	76.8	83.9	89.3	93.0	95.3	95.0	93.0	100.8
90.0	76.8	83.6	89.1	92.8	95.5	95.0	92.5	100.6
95.0	76.5	83.1	88.7	92.5	95.3	94.5	92.0	100.3
100.0	76.3	82.6	87.9	91.8	95.2	94.0	91.5	99.8
105.0	75.6	82.2	87.9	91.5	94.7	94.0	91.5	99.0
110.0	75.3	81.7	87.3	90.7	94.3	93.5	91.0	99.1
115.0	75.0	80.6	87.2	90.9	93.8	93.0	91.0	98.8

MODEL THRUST = 26.148 FULL SCALE THRUST = 20000.000

LT	PNDB	OASPL	18.1	OCTAVE	BAND	SOUND	PRESSURE	LEVELS										
				36.2	72.3	144.6	289.3	578.5	1139.0	2278.0	4519.8	9039.5	18079.1					
5795.6	83.0(82.4)	83.3	66.14	74.59	79.46	78.55	72.09	66.53	58.14	42.38	13.73	-37.21	-120.41					
4385.7	86.8(85.8)	86.2	87.91	78.19	82.19	81.89	76.05	68.77	62.29	49.84	27.23	-12.05	-75.82					
3549.3	89.6(88.6)	88.5	88.00	76.81	83.86	86.45	80.18	72.41	65.98	55.16	36.45	4.69	-48.08					
3088.8	92.1(90.9)	89.9	87.44	76.47	83.76	86.43	82.97	75.97	68.93	59.33	43.05	15.23	-29.33					
2615.2	93.9(92.5)	90.5	86.74	75.35	83.18	86.70	85.02	79.24	71.68	62.92	48.34	23.71	-15.52					
2333.6	94.3(92.7)	90.0	85.43	73.50	81.37	85.29	85.19	81.16	74.38	66.25	52.92	30.62	-4.72					
2121.3	94.6(92.4)	89.4	84.83	72.57	79.86	83.78	84.73	82.32	76.15	68.48	56.09	35.54	3.15					
1938.1	93.8(91.3)	88.2	84.19	71.80	78.00	81.77	83.45	81.76	76.65	69.35	57.68	38.48	8.35					
1831.2	93.9(91.1)	88.0	84.21	70.91	77.71	81.23	83.09	81.88	77.24	70.21	59.10	40.96	12.58					
1737.1	94.0(91.1)	87.9	84.09	70.81	77.44	80.97	82.90	82.04	77.35	70.53	59.87	42.54	15.54					
1655.1	93.7(90.7)	87.4	84.07	71.11	76.90	80.44	82.29	81.48	77.41	70.77	60.44	43.75	17.82					
1596.3	93.3(90.1)	87.0	83.70	71.11	76.35	80.07	81.81	80.83	77.28	70.77	60.70	44.50	19.38					
1552.9	93.1(89.9)	86.7	84.40	70.80	76.33	79.70	81.47	80.58	77.08	70.67	60.79	44.95	20.43					
1523.1	92.8(89.3)	86.4	83.63	69.99	75.80	79.21	81.22	80.28	76.83	70.48	60.74	45.14	21.03					
1505.7	92.4(89.2)	86.0	82.67	69.73	75.30	78.75	81.04	79.91	76.46	70.15	60.48	45.03	21.17					
1500.0	92.3(89.1)	85.9	82.71	69.50	74.94	78.53	80.99	79.95	75.98	69.68	60.04	44.63	20.85					
1505.7	91.8(88.7)	85.6	82.39	68.90	74.49	78.25	80.96	79.41	75.46	69.14	59.48	44.02	20.14					
1523.1	91.3(88.2)	85.0	81.99	68.36	73.59	77.28	80.65	78.77	74.82	68.47	58.73	43.13	19.03					
1552.9	90.8(87.6)	84.5	81.20	67.72	73.03	76.93	79.95	78.58	74.61	68.19	58.32	42.47	17.95					
1596.3	90.0(86.9)	83.8	80.64	66.98	72.00	75.96	79.35	77.88	73.78	67.25	57.18	40.98	15.88					
1655.1	89.2(86.1)	83.1	59.98	65.58	72.18	75.77	78.42	76.97	73.35	66.71	56.38	39.69	13.76					

RUN NUMBER	442.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.103
PRIMARY TEMPERATURE (R)	520.000
SECONDARY TEMPERATURE (R)	533.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	4.854
VELOCITY RATIO	4.442
PRIMARY VELOCITY (FT/SEC)	1373.715
MASS FLOW RATIO	2.733
PRIMARY MASS FLOW (LB/SEC)	.425
THRUST (LBS)	51.914
ENVIRONMENTAL TEMPERATURE (R)	514.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	50.000
CALIBRATION FACTOR (INV TO DY/SQ CM)	.050
INSTRUMENTATION NOISE FLOOR (DB)	63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	5.05133E+00	137.0	THRUST	POWER LEVEL (DB)
500	6.72305E-02	118.3	10000	139.9
1000	3.73056E-01	125.7	20000	142.9
2000	1.05309E+00	130.2	40000	145.9
4000	1.20940E+00	130.8	80000	148.9
8000	1.04671E+00	130.2		
16000	7.81755E-01	128.9		
31500	5.20091E-01	127.2		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.5	109.4	106.9	103.1	96.8	96.0	91.8	110.6
20.0	97.5	105.3	107.7	103.8	97.1	96.9	92.0	111.2
25.0	96.1	104.0	107.6	105.0	98.1	98.6	91.9	111.1
30.0	94.5	102.4	107.5	106.0	99.7	95.8	92.8	111.2
35.0	92.3	100.2	106.1	106.3	101.8	97.2	94.1	110.7
40.0	89.8	97.9	103.8	105.5	103.3	99.2	96.0	110.0
45.0	87.8	95.3	101.9	104.1	103.2	100.2	95.7	109.1
50.0	86.1	93.6	100.2	102.6	102.3	100.3	97.9	108.2
55.0	85.6	93.0	99.3	101.8	102.1	100.8	99.0	108.0
60.0	85.2	92.5	98.3	100.9	101.5	100.3	99.3	107.4
65.0	85.1	91.9	97.4	100.3	101.5	100.9	99.7	107.3
70.0	84.6	91.8	96.8	99.5	100.2	100.0	99.2	106.4
75.0	84.9	91.2	96.2	99.0	99.9	100.0	99.0	106.2
80.0	84.4	90.6	95.8	98.7	99.7	99.5	98.5	105.8
85.0	83.5	89.9	95.1	97.9	99.5	99.5	98.0	105.4
90.0	83.4	89.2	94.8	97.8	99.7	99.3	97.5	105.3
95.0	82.5	88.7	93.9	97.2	99.4	99.0	97.5	104.9
100.0	82.0	88.4	93.5	96.9	99.5	98.7	97.0	104.7
105.0	81.8	87.5	93.0	96.8	99.4	99.0	96.5	104.6
110.0	80.6	86.8	93.2	96.6	99.8	98.5	96.0	104.5
115.0	80.4	85.9	92.8	96.1	99.4	98.5	96.0	104.2

MODEL THRUST = 51.914 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE		BAND		SOUND		PRESSURE		LEVELS		
			25.5	50.9	101.9	203.8	407.6	815.2	1604.9	3209.7	6368.5	12737.0	25473.9
8795.6	80.6 (80.4)	81.5	69.67	76.46	77.83	73.50	65.81	61.26	48.58	27.19	-11.05	-76.73	-179.42
9385.7	84.4 (83.9)	84.4	71.03	78.85	81.06	76.79	68.99	64.02	54.77	37.85	8.18	-42.25	-120.89
9549.3	87.1 (86.6)	86.2	71.55	79.42	82.87	79.92	72.16	66.43	58.58	44.32	19.74	-21.65	-85.70
9888.0	89.7 (89.0)	87.7	71.41	79.27	84.23	82.51	75.42	69.67	62.28	49.76	28.52	-6.93	-61.53
2615.2	91.5 (90.6)	88.4	70.34	78.23	84.07	84.08	78.84	72.63	65.66	54.37	35.47	4.18	-43.80
2333.6	92.7 (91.5)	88.5	68.90	76.91	82.82	84.30	81.46	75.90	69.29	58.89	41.70	13.46	-29.68
2121.3	93.5 (92.1)	88.2	67.68	75.15	81.71	83.71	82.29	77.90	71.36	61.63	45.73	19.79	-19.70
1958.1	93.9 (92.2)	87.9	66.72	74.19	80.71	82.92	82.19	78.88	73.66	64.44	49.54	25.38	-11.32
1831.2	94.7 (92.8)	88.2	66.75	74.18	80.43	82.78	82.61	80.05	75.98	66.87	52.74	29.93	-4.56
1732.1	94.9 (92.8)	88.0	66.89	74.14	79.84	82.32	82.50	80.21	76.65	68.16	54.63	32.89	1.10
1655.1	95.6 (93.4)	88.3	67.16	73.97	79.35	82.18	82.95	81.31	77.66	69.41	56.35	35.45	3.98
1596.3	95.3 (93.1)	87.8	66.98	74.10	79.08	81.61	81.95	80.72	77.58	69.51	56.81	36.54	6.09
1552.9	95.5 (93.1)	87.7	67.47	73.79	78.74	81.40	81.88	81.03	77.76	69.83	57.39	37.66	7.89
1523.1	95.2 (92.9)	87.6	67.13	73.37	78.50	81.26	81.88	80.73	77.50	69.68	57.40	37.93	8.73
1505.7	94.9 (92.6)	87.3	66.40	72.76	77.86	80.59	81.79	80.84	77.15	69.37	57.22	37.93	9.03
1500.0	94.6 (92.3)	87.2	66.29	72.11	77.66	80.54	82.03	80.65	76.67	68.92	56.40	37.57	8.77
1505.7	94.4 (92.0)	86.8	65.32	71.48	76.74	79.88	81.73	80.34	76.63	68.05	56.69	37.41	8.51
1523.1	93.8 (91.5)	86.4	64.72	71.14	76.21	79.44	81.69	79.87	75.98	68.15	55.89	36.42	7.22
1552.9	93.4 (91.1)	86.1	64.20	70.05	75.54	79.23	81.45	80.03	75.26	67.34	54.89	35.10	5.39
1596.3	93.0 (90.9)	85.8	63.00	69.09	75.92	78.77	81.44	79.25	74.41	66.35	53.84	33.38	2.92
1655.1	92.3 (90.2)	85.1	62.48	67.89	74.74	77.93	80.83	78.87	73.95	65.70	52.64	31.74	1.27

AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	525.000
SECONDARY TEMPERATURE (R)	535.000
PRIMARY PRESSURE (WATTS)	3.300
AREA RATIO	4.856
VELOCITY RATIO	.751
PRIMARY VELOCITY (FT/SEC)	1380.304
MASS FLOW RATIO	3.143
PRIMARY MASS FLOW (LB/SEC)	.423
THRUST (CRS)	60.951
ENVIRONMENTAL TEMPERATURE (R)	514.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	49.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.063
INSTRUMENTATION NOISE FLOOR (DB)	65.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
			THRUST	POWER LEVEL (DB)
OVERALL	6.93538E+00	138.4		
500	1.08063E-01	120.3	10000	160.6
1000	5.62178E-01	127.5	20000	163.6
2000	1.47564E+00	131.7	40000	166.6
4000	1.88433E+00	132.3	80000	169.6
8000	1.47421E+00	131.7		
16000	9.88605E-01	129.9		
31500	6.42551E-01	128.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	100.5	107.1	108.0	104.3	98.0	95.7	92.0	112.2
20.0	99.5	106.8	108.5	105.3	98.8	95.1	91.8	112.4
25.0	98.6	105.8	109.1	106.2	100.0	96.6	93.9	112.7
30.0	98.3	104.3	108.4	106.7	101.2	97.2	94.3	112.2
35.0	94.3	102.2	107.4	107.3	102.5	98.2	95.0	111.9
40.0	91.7	99.8	105.9	107.0	104.3	100.0	96.1	111.5
45.0	90.0	97.2	103.7	105.8	104.5	101.3	98.6	110.8
50.0	88.5	95.7	102.0	104.5	104.4	102.3	99.4	110.1
55.0	88.0	94.7	100.7	103.5	103.7	101.8	99.8	109.3
60.0	86.9	94.7	100.3	102.6	103.3	102.1	100.7	109.1
65.0	87.1	93.8	99.4	101.9	102.6	101.7	100.7	108.6
70.0	86.8	93.3	98.7	101.2	101.9	101.2	99.8	107.9
75.0	86.4	92.8	97.9	100.5	101.5	101.0	99.5	107.3
80.0	86.4	92.3	97.4	100.2	101.3	100.5	99.0	107.1
85.0	86.0	91.9	97.0	99.5	101.1	100.0	98.5	106.8
90.0	85.3	91.5	96.5	99.4	101.4	100.0	98.5	106.6
95.0	84.8	90.2	95.9	98.9	100.8	100.0	98.0	106.2
100.0	84.3	89.9	95.4	98.6	101.1	99.5	98.0	106.1
105.0	83.2	89.5	95.1	98.3	100.8	99.5	97.5	105.7
110.0	82.5	88.9	94.9	98.0	101.1	99.5	97.5	105.6
115.0	82.7	88.0	94.5	98.1	101.1	99.0	97.0	105.5

MODEL THRUST = 60.951 FULL SCALE THRUST = 20000.000

LT	PROB.	OASPL	27.6	OCTAVE 55.2	BAND 110.4	SOUND 220.8	PRESSURE 441.6	LEVELS 883.3	1719.0	3477.9	6900.6	13801.2	27602.4
5795.6	81.21 (81.1)	82.2	70.98	77.47	78.24	73.90	66.02	59.55	46.61	23.65	-17.18	-86.67	-194.14
4389.7	85.01 (84.7)	84.9	72.37	79.63	81.23	77.54	69.78	63.04	52.65	34.54	2.92	-50.40	-132.46
3549.3	88.21 (87.7)	87.0	73.29	80.50	83.69	80.43	73.27	67.26	58.87	43.65	17.49	-26.24	-93.22
2888.0	90.21 (89.5)	88.0	72.47	80.39	84.39	82.45	76.09	70.01	62.29	48.98	28.38	-11.04	-68.12
2415.2	92.01 (91.2)	88.8	71.65	79.53	84.64	84.28	78.78	72.60	65.22	53.21	33.14	.14	-50.00
2335.4	93.31 (92.3)	89.2	70.07	78.10	84.13	84.98	81.68	75.67	68.13	57.09	38.86	9.08	-35.98
2121.3	94.21 (92.9)	89.0	69.17	76.38	82.75	84.68	82.74	78.04	71.96	61.66	44.81	17.47	-23.77
1958.1	95.01 (93.5)	89.0	68.35	75.59	81.84	84.07	83.43	79.96	73.93	64.19	48.41	22.94	-15.36
1831.2	95.21 (93.6)	88.8	68.51	75.12	81.06	83.72	83.39	80.23	75.29	65.99	51.03	27.02	-4.98
1732.1	95.81 (93.9)	89.0	67.83	75.60	81.10	83.31	83.90	81.13	76.90	67.93	53.63	30.75	-3.47
1655.1	96.01 (94.1)	88.8	68.47	75.16	80.65	82.97	83.21	81.10	77.54	68.84	55.04	33.05	.22
1590.3	95.71 (93.7)	88.5	68.42	74.92	80.31	82.63	82.85	81.04	77.13	68.63	55.21	33.90	2.12
1552.9	95.71 (93.6)	88.3	68.27	74.71	79.76	82.17	82.77	81.15	77.15	68.80	55.67	34.85	3.86
1525.1	95.91 (93.9)	88.1	68.44	74.33	79.42	82.05	82.72	80.82	76.90	68.65	55.71	35.23	4.78
1505.7	95.11 (93.1)	87.8	68.13	74.07	79.11	81.50	82.64	80.45	76.57	68.38	55.55	35.28	5.14
1500.0	95.21 (93.1)	87.8	67.45	73.65	78.60	81.40	82.95	80.49	76.61	68.45	55.88	35.45	5.41
1505.7	94.61 (92.5)	87.3	66.96	72.37	78.04	80.82	82.34	80.45	76.06	67.87	55.05	34.77	4.63
1525.1	94.41 (92.4)	87.1	66.37	72.00	77.40	80.67	82.57	79.95	75.91	67.87	54.73	34.25	3.79
1552.9	93.81 (91.8)	86.6	66.13	71.35	76.95	79.93	82.02	79.65	75.11	66.78	53.64	32.82	1.83
1590.3	93.61 (91.6)	86.3	64.11	70.51	76.48	79.42	82.04	79.35	74.77	66.27	52.83	31.54	-2.24
1655.1	92.91 (91.0)	85.8	64.00	69.31	75.80	79.17	81.70	78.48	73.85	65.15	51.35	29.38	-3.47

RUN NUMBER	444.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	522.000
SECONDARY TEMPERATURE (R)	825.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	0.788
VELOCITY RATIO	.355
PRIMARY VELOCITY (FT/SEC)	1376.354
MASS FLOW RATIO	2.444
PRIMARY MASS FLOW (LB/SEC)	.427
THRUST (LBS)	34.052
ENVIRONMENTAL TEMPERATURE (R)	515.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	69.000
CALIBRATION FACTOR (IN. TO DY/50 CM)	.071
INSTRUMENTATION NOISE FLOOR (DB)	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	5.78076E+00	137.6	THRUST POWER LEVEL (DB)
800	1.96338E-02	112.9	10000 162.3
1000	1.17377E-01	120.7	20000 165.3
2000	5.37417E-01	127.3	40000 168.3
4000	1.53602E+00	131.3	80000 171.3
8000	1.78646E+00	132.5	
16000	1.30474E+00	131.2	
31500	6.79107E-01	128.3	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE BAND	SOUND PRESSURE LEVELS	OVER ALL				
	300	1000	2000	4000	8000	16000	31500	
15.0	93.2	100.0	105.1	106.7	107.0	104.3	99.3	112.9
20.0	92.1	100.1	106.4	108.7	108.8	105.4	100.4	114.0
25.0	90.5	99.0	106.3	109.8	109.8	106.3	101.8	114.7
30.0	88.6	97.7	106.8	109.5	109.7	107.2	103.0	114.6
35.0	86.8	95.4	102.9	108.2	109.5	107.4	103.4	114.1
40.0	84.8	93.2	100.5	105.9	108.2	106.8	103.2	112.7
45.0	82.8	90.6	97.7	102.9	105.5	104.9	102.0	110.4
50.0	81.4	89.0	95.5	100.2	103.6	103.5	101.6	108.7
55.0	80.0	88.1	94.2	98.7	101.6	102.3	101.1	107.4
60.0	80.8	86.4	93.2	97.2	100.3	100.7	99.4	105.9
65.0	79.9	86.0	92.5	96.5	99.0	99.6	98.0	104.8
70.0	79.9	85.8	92.1	95.6	97.7	98.4	97.0	103.7
75.0	79.6	85.7	91.2	94.8	96.8	97.7	96.5	103.0
80.0	78.6	85.3	91.0	94.5	96.0	97.0	95.5	102.3
85.0	79.0	84.8	90.1	93.5	95.3	96.5	95.0	101.7
90.0	77.8	84.2	90.1	93.1	94.9	96.0	94.5	101.2
95.0	77.4	83.8	89.4	92.3	94.0	95.5	94.0	100.6
100.0	76.6	83.3	88.6	91.8	94.1	95.0	93.5	100.2
105.0	76.6	82.6	87.9	91.0	93.7	94.5	93.0	99.7
110.0	75.6	81.9	86.3	90.6	92.5	94.0	92.5	99.3
115.0	75.6	81.3	87.6	90.0	92.8	93.5	92.0	98.7

MODEL THRUST = 34.052 FULL SCALE THRUST = 10000.000

LA	PHOB.	OASPL	OCTAVE BAND	SOUND PRESSURE LEVELS	29.2	58.4	116.7	233.4	466.8	933.7	1838.2	3676.3	7294.3	14588.5	29177.0
8795.6	83.6 (83.3)	80.6	63.17	70.73	74.78	75.76	74.33	67.22	52.32	28.21	-14.48	-86.69	-197.50		
4389.7	86.0 (86.2)	84.8	64.48	72.40	78.01	80.37	79.21	72.43	59.97	41.00	7.96	-87.41	-132.00		
3549.3	91.9 (91.4)	87.5	64.69	73.18	80.33	83.14	82.23	76.18	65.63	49.70	22.39	-23.80	-92.02		
3000.0	94.0 (93.2)	88.9	64.30	72.87	80.39	84.70	84.05	79.23	69.01	55.09	32.44	-6.39	-65.19		
2615.2	95.3 (94.3)	89.5	63.73	72.21	79.68	84.67	85.22	81.06	72.59	60.07	39.15	6.92	-46.73		
2333.6	95.4 (94.1)	89.0	62.67	71.00	78.72	83.40	85.03	81.78	74.23	62.73	43.74	12.88	-33.53		
2121.3	94.1 (92.7)	87.4	61.52	69.26	76.26	81.25	83.26	81.00	74.49	63.76	46.23	17.90	-24.56		
1930.1	93.5 (91.8)	86.4	60.77	68.38	74.79	79.29	82.08	80.50	75.28	65.15	48.74	22.35	-17.07		
1831.2	93.5 (91.6)	85.6	60.81	68.11	74.12	78.39	80.74	80.01	75.70	66.03	50.49	25.62	-11.44		
1732.1	92.7 (90.8)	84.8	61.29	67.36	73.55	77.44	79.95	79.08	74.82	65.51	50.65	26.96	-8.26		
1655.1	92.0 (90.0)	84.1	60.80	66.83	73.28	77.06	79.13	78.42	74.00	64.97	50.63	27.87	-5.92		
1596.3	91.5 (89.5)	83.4	61.12	66.97	73.24	76.56	78.16	77.58	73.52	64.76	50.77	28.71	-3.99		
1552.9	91.2 (89.2)	83.0	61.04	67.05	72.53	75.97	77.51	77.21	73.36	64.70	51.06	29.52	-2.37		
1523.1	90.6 (88.6)	82.5	60.18	66.97	72.49	75.82	76.93	76.71	72.63	64.08	50.85	29.48	-1.88		
1505.7	90.2 (88.1)	82.0	60.64	66.42	71.73	74.96	76.34	76.32	72.24	63.76	50.44	29.46	-1.55		
1500.0	89.8 (87.7)	81.8	59.56	65.87	71.76	74.54	75.90	75.89	71.82	63.35	50.08	29.17	-1.74		
1505.7	89.1 (87.0)	80.8	59.12	65.42	71.01	73.70	74.98	75.36	71.26	62.78	49.47	28.49	-2.52		
1523.1	88.5 (86.4)	80.4	58.15	64.88	70.13	73.17	74.95	74.71	70.58	62.03	48.80	27.61	-3.92		
1552.9	87.7 (85.7)	79.6	57.99	64.02	69.26	72.16	74.37	74.03	69.87	61.22	47.58	26.04	-5.45		
1596.3	87.0 (85.0)	79.1	58.70	63.03	67.45	71.51	73.99	73.23	69.03	60.28	46.28	24.22	-8.47		
1655.1	85.9 (84.0)	78.1	56.47	62.17	68.40	70.55	72.93	72.30	68.04	59.01	44.66	21.91	-11.88		

RUN NUMBER		445.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)		4.100
PRIMARY TEMPERATURE (R)		523.000
SECONDARY TEMPERATURE (R)		532.000
PRIMARY PRESSURE RATIO		3.500
AREA RATIO		9.784
VELOCITY RATIO		.679
PRIMARY VELOCITY (FT/SEC)		1377.672
MASS FLOW RATIO		5.273
PRIMARY MASS FLOW (LB/SEC)		.427
THRUST (LBS)		83.644
ENVIRONMENTAL TEMPERATURE (R)		515.000
ENVIRONMENTAL PRESSURE (IN.HG)		29.740
ENVIRONMENTAL HUMIDITY (PER CENT)		49.000
CALIBRATION FACTOR (MV TO DY/SQ CM)		.100
INSTRUMENTATION NOISE FLOOR (DB)		49.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.47152E+01	141.7		
500	1.46863E-01	121.7	THRUST	POWER LEVEL (DB)
1000	6.46566E-01	128.1	10000	162.5
2000	2.03497E+00	133.1	20000	165.5
4000	3.26337E+00	135.1	40000	168.5
8000	3.55734E+00	135.5	80000	171.5
16000	2.97204E+00	134.7		
31500	2.09403E+00	133.2		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	102.0	106.9	108.6	108.5	106.4	103.1	98.1	114.4
20.0	100.9	107.0	109.2	109.9	108.5	105.0	99.9	115.5
25.0	99.4	106.0	110.6	111.2	110.1	107.0	103.1	116.7
30.0	97.9	105.3	110.7	111.8	110.6	107.8	104.5	117.1
35.0	95.0	102.9	109.5	112.2	111.7	108.8	105.3	117.3
40.0	92.9	101.1	107.7	110.8	111.7	109.1	106.2	116.7
45.0	91.6	98.8	105.3	108.7	110.4	109.1	106.8	115.5
50.0	90.1	97.1	103.5	106.3	108.1	107.6	106.3	113.7
55.0	89.3	95.7	101.8	104.7	106.3	106.5	106.0	112.5
60.0	89.3	94.8	100.7	103.3	104.8	105.3	105.6	111.4
65.0	89.0	94.8	100.1	102.8	104.2	105.3	104.9	110.9
70.0	88.8	94.1	99.0	102.0	103.3	104.5	104.1	110.1
75.0	87.6	93.5	98.6	101.0	102.1	104.0	103.3	109.3
80.0	87.6	93.2	98.2	100.7	101.7	103.7	102.8	109.0
85.0	87.1	92.8	97.5	99.7	101.0	103.0	102.5	108.3
90.0	87.1	92.1	97.1	99.1	100.5	102.5	101.5	107.7
95.0	86.0	91.4	96.6	98.6	100.0	102.0	101.0	107.2
100.0	85.6	91.2	96.2	98.2	99.0	101.5	100.5	106.6
105.0	84.9	90.6	95.8	97.7	99.0	101.0	100.0	106.2
110.0	83.8	89.8	95.6	97.5	98.0	100.5	99.5	105.7
115.0	84.1	89.0	95.1	97.0	98.0	100.0	99.0	105.3

MODEL THRUST = 83.644 FULL SCALE THRUST = 20000.000

L	PHWG.	OASPL	OCTAVE 32.3	BAND 64.7	SOUND 129.3	PRESSURE 258.7	LEVELS 517.4	1034.7	2037.1	4074.2	8083.7	16167.5	32335.0
5795.6	84.21 (84.1)	82.3	71.05	75.84	77.34	76.52	72.39	64.07	48.80	21.63	-24.70	-102.11	-219.18
5209.7	80.81 (80.5)	85.8	72.37	78.44	80.41	80.54	77.71	70.31	58.82	38.13	.34	-58.97	-146.29
3549.1	92.61 (92.2)	88.8	72.76	79.33	83.72	83.85	81.52	75.33	64.63	47.31	17.78	-30.79	-103.65
3000.0	95.11 (94.5)	90.7	72.65	80.03	85.29	86.06	83.84	78.40	69.37	54.27	28.84	-12.67	-74.72
2615.2	97.21 (96.4)	92.1	70.97	78.88	85.36	87.73	86.35	81.13	72.67	59.12	36.57	-6.01	-54.48
2333.6	98.21 (97.3)	92.3	69.86	78.01	84.58	87.39	87.41	82.86	75.42	63.01	42.56	9.60	-39.33
2121.3	98.41 (97.2)	91.7	69.42	76.63	83.02	86.15	87.09	83.97	77.58	66.02	47.16	16.93	-27.83
1950.1	97.81 (96.3)	90.5	68.62	75.58	81.49	84.49	85.81	83.34	76.33	67.43	49.80	21.86	-19.89
1831.2	97.91 (96.3)	89.8	68.35	74.77	80.76	83.49	84.46	83.04	79.05	68.66	51.97	25.46	-13.58
1732.1	97.81 (96.1)	89.1	68.84	74.39	80.22	82.55	83.44	82.48	79.41	69.43	53.48	29.24	-8.85
1655.1	97.91 (96.1)	89.1	68.93	74.70	79.99	82.48	83.32	82.92	79.38	69.71	54.33	30.08	-5.49
1596.3	97.51 (95.8)	88.7	69.08	74.40	79.15	81.95	82.71	82.58	79.11	69.67	54.74	31.24	-3.78
1552.9	97.11 (95.2)	88.1	68.14	73.98	79.04	81.26	81.80	82.31	78.63	69.37	54.76	31.82	-1.74
1525.1	96.91 (95.1)	88.0	68.31	73.86	78.84	81.12	81.55	82.29	78.49	69.34	54.96	32.40	-0.58
1505.7	96.81 (94.7)	87.4	67.85	73.54	78.21	80.22	81.00	81.70	78.27	69.20	54.94	32.61	-0.03
1500.0	95.81 (93.9)	86.9	67.88	72.92	77.82	79.68	80.53	81.20	77.33	68.28	54.07	31.81	-0.71
1505.7	95.21 (93.4)	86.3	66.83	72.17	77.34	79.49	79.96	80.69	76.77	67.70	53.44	31.11	-1.53
1525.1	94.51 (92.7)	85.6	66.28	71.82	76.77	78.58	78.86	80.06	76.15	67.00	52.62	30.86	-2.92
1552.9	93.81 (92.0)	85.0	65.40	71.12	76.27	77.97	78.68	79.32	75.38	66.12	51.51	28.57	-4.99
1596.3	92.91 (91.2)	84.2	64.10	70.03	75.78	77.43	77.44	78.47	74.47	65.03	50.10	28.61	-7.81
1655.1	92.01 (90.3)	83.5	64.07	68.93	74.93	76.67	77.10	77.63	73.49	63.81	48.44	24.19	-11.39

RUN NUMBER	= 446.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 0.784
VELOCITY RATIO	= 0.749
PRIMARY VELOCITY (FT/SEC)	= 1380.304
MASS FLOW RATIO	= 6.078
PRIMARY MASS FLOW (LB/SEC)	= 427
THRUST (LBS)	= 101.576
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 49.000
CALIBRATION FACTOR (MV TO OY/50 CM)	= 0.112
INSTRUMENTATION NOISE FLOOR (DB)	= 70.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.82607E+01	142.6	THRUST	POWER LEVEL (DB)
500	2.50534E-01	124.0	10000	162.5
1000	1.05131E+00	130.2	20000	165.6
2000	2.72009E+00	134.3	40000	168.6
4000	4.03372E+00	136.1	80000	171.6
8000	4.39037E+00	136.4		
16000	3.60828E+00	135.6		
31500	2.20636E+00	133.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	104.3	104.2	104.3	108.9	107.6	104.7	99.5	115.7
20.0	103.2	109.2	111.1	110.5	109.5	106.8	101.5	117.0
25.0	102.3	108.6	111.7	111.5	110.4	106.9	102.7	117.4
30.0	99.5	106.9	111.8	112.1	110.8	108.3	105.6	117.7
35.0	97.6	105.2	110.4	112.2	111.4	108.4	104.7	117.4
40.0	95.6	103.0	108.9	112.0	112.3	109.3	105.4	117.4
45.0	93.8	102.7	106.6	109.8	111.2	109.4	106.5	116.2
50.0	92.1	98.7	104.6	108.0	109.8	108.9	106.7	115.1
55.0	91.1	97.8	102.8	106.0	107.5	107.5	105.4	113.5
60.0	91.0	97.6	102.3	105.2	106.1	106.1	105.2	112.3
65.0	91.0	96.6	101.9	104.4	105.6	106.5	105.3	112.2
70.0	90.7	96.1	100.7	103.5	104.3	105.5	104.7	111.2
75.0	90.3	95.4	100.0	102.8	103.8	105.0	103.6	110.5
80.0	90.0	94.9	99.8	102.3	103.5	104.5	103.0	110.0
85.0	89.5	94.3	99.0	101.6	103.0	104.0	102.5	109.4
90.0	89.0	93.9	99.0	100.9	102.5	103.5	102.0	109.0
95.0	88.4	93.6	98.2	100.3	101.5	103.5	101.5	108.5
100.0	87.9	92.8	97.6	99.8	101.5	103.0	101.0	108.1
105.0	87.0	92.6	97.4	99.8	101.0	103.0	100.5	107.9
110.0	86.6	92.2	97.2	99.5	101.0	102.5	100.5	107.6
115.0	86.4	91.2	96.8	99.3	100.5	102.5	100.0	107.3

MODEL THRUST = 101.576 FULL SCALE THRUST = 20000.000

L	PNDR	OASPL	OCTAVE 35.6	BAND 71.3	SOUND 142.5	PRESSURE 285.1	LEVELS 570.1	1140.3	2244.9	4489.7	8908.2	17816.5	35632.9
5795.6	84.3 (84.2)	82.6	72.55	77.34	77.18	75.85	72.26	63.69	46.48	-17.78	-32.18	-114.70	-237.75
4385.7	89.2 (89.0)	86.4	73.87	79.79	81.42	80.25	77.52	70.46	55.82	-33.38	-5.17	-48.34	-162.19
3549.3	92.5 (92.1)	88.8	74.75	81.01	83.93	83.22	80.74	73.72	62.00	-43.26	11.50	-40.20	-116.72
3000.0	95.0 (94.5)	90.4	73.45	80.81	85.55	85.37	82.96	77.44	63.34	-52.04	24.73	-19.41	-84.58
2615.2	96.3 (95.7)	91.3	72.74	80.31	85.40	86.78	84.93	79.41	70.04	-55.46	31.27	-7.61	-64.78
2333.6	97.9 (97.1)	92.2	71.72	79.09	84.88	87.61	86.49	81.74	73.26	-59.82	38.01	2.99	-48.35
2121.3	98.1 (97.1)	91.6	70.75	77.43	83.45	86.35	86.85	83.02	75.61	-63.20	43.01	10.91	-36.04
1958.1	97.9 (96.8)	91.0	69.80	76.35	82.13	85.20	86.25	83.45	77.10	-65.42	46.55	16.69	-26.88
1831.2	97.7 (96.4)	89.8	69.36	75.99	80.94	83.85	86.60	82.87	77.85	-66.73	48.89	20.77	-20.16
1732.1	97.4 (96.0)	89.3	69.71	76.16	80.96	83.54	83.73	82.03	77.49	-66.81	49.77	23.01	-15.87
1655.1	97.9 (96.5)	89.5	70.10	75.73	80.95	83.40	83.67	82.95	78.21	-67.87	51.46	25.74	-11.53
1596.3	97.4 (96.1)	89.8	70.14	75.40	80.07	82.54	82.77	82.43	78.19	-68.11	52.18	27.28	-8.79
1552.0	97.0 (95.5)	88.5	69.94	75.06	79.59	82.15	82.54	82.21	77.36	-67.48	51.89	27.59	-7.50
1523.1	96.8 (95.3)	88.2	69.80	74.69	79.59	81.80	82.40	81.91	77.19	-67.44	52.10	28.20	-6.35
1505.7	96.4 (94.9)	87.7	69.43	74.21	78.42	81.10	82.00	81.52	76.82	-67.14	51.94	28.28	-5.91
1500.0	96.0 (94.4)	87.3	68.95	73.83	78.85	80.57	81.54	81.07	76.37	-66.72	51.46	27.94	-4.09
1505.7	95.4 (93.9)	86.8	68.38	73.48	78.07	79.97	80.53	81.03	75.94	-66.17	50.46	27.31	-3.49
1523.1	94.8 (93.3)	86.2	67.71	72.84	77.10	78.37	80.43	80.43	75.18	-65.43	50.58	26.19	-2.36
1552.0	94.1 (92.6)	85.8	68.71	72.29	76.38	79.69	79.70	80.21	74.34	-64.49	48.91	24.60	-10.47
1594.3	93.4 (92.2)	85.3	68.63	71.54	76.44	78.42	79.41	79.40	73.97	-63.96	47.96	23.00	-13.01
1655.1	92.7 (91.1)	84.6	65.48	70.14	75.45	78.11	78.43	79.49	72.96	-62.82	46.21	20.51	-16.78

RUN NUMBER	=	447.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	4.100
PRIMARY TEMPERATURE (F)	=	929.000
SECONDARY TEMPERATURE (F)	=	548.000
PRIMARY PRESSURE RATIO	=	1.600
AREA RATIO	=	1.000
VELOCITY RATIO	=	.381
PRIMARY VELOCITY (FT/SEC)	=	1182.820
MASS FLOW RATIO	=	.516
PRIMARY MASS FLOW (LB/SEC)	=	1.68
THRUST (LBS)	=	7.434
ENVIRONMENTAL TEMPERATURE (F)	=	527.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	=	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	=	.022
INSTRUMENTATION NOISE FLOOR (DB)	=	36.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	4.95576E-01	127.0	THRUST POWER LEVEL (DB)
500	2.39080E-03	103.8	10000 158.2
1000	1.82048E-02	112.6	20000 161.2
2000	1.07354E-01	120.3	40000 164.3
4000	1.91494E-01	122.8	80000 167.3
8000	1.16782E-01	120.7	
16000	4.46783E-02	116.5	
31500	1.46679E-02	111.7	

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND PRESSURE LEVELS 4000	8000	16000	31500	OVER ALL
15.0	84.1	92.7	99.6	100.6	95.9	84.8	75.6	104.3
20.0	82.7	92.1	99.8	101.4	96.4	86.4	77.8	104.8
25.0	81.7	91.2	98.9	101.1	96.4	88.1	80.8	104.4
30.0	80.3	89.4	98.0	100.6	97.9	89.9	82.8	104.1
35.0	78.5	88.0	96.4	99.3	96.7	90.8	84.3	102.9
40.0	76.7	85.7	94.0	97.0	95.8	91.5	85.2	101.3
45.0	74.1	83.5	91.1	94.7	94.7	91.4	85.8	99.6
50.0	72.8	81.3	88.8	92.6	93.4	90.7	85.9	98.1
55.0	72.1	...	86.9	90.4	91.5	89.5	85.1	96.4
60.0	70.8	7.9	85.0	89.0	90.2	88.2	84.5	95.0
65.0	69.9	76.9	83.7	87.5	89.0	87.4	83.2	93.8
70.0	68.6	76.2	82.7	86.3	87.8	86.1	82.5	92.7
75.0	68.0	75.5	81.9	85.3	86.6	84.8	81.2	91.6
80.0	68.2	75.1	81.2	84.7	85.9	84.3	80.5	90.9
85.0	68.2	74.8	80.5	83.7	84.9	83.5	80.2	90.1
90.0	67.0	74.4	79.9	83.0	84.2	82.2	78.9	89.2
95.0	67.9	73.8	79.2	82.3	83.5	81.6	78.8	88.6
100.0	66.6	72.9	78.1	81.7	83.1	81.3	78.4	88.1
105.0	66.6	72.1	77.9	81.0	82.2	80.4	77.5	87.3
110.0	65.6	72.1	77.5	80.3	81.4	79.7	76.9	86.6
115.0	65.1	71.0	77.3	80.1	80.8	79.0	76.6	86.2

MODEL THRUST = 7.434 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	9.6	OCTAVE BAND 19.3	30.6	SOUND PRESSURE LEVELS 77.1	154.2	308.5	607.3	1214.6	2410.0	4819.9	9639.8
5705.6	79.31	78.71	83.8	63.65	72.31	79.17	80.05	75.03	62.93	51.31	42.17	25.70	-4.80
4385.7	83.21	82.31	86.6	64.48	74.87	81.80	83.27	78.08	67.29	56.83	49.18	35.99	12.18
3549.3	85.01	84.61	88.1	65.43	75.10	82.73	84.88	80.00	71.13	62.24	55.48	44.24	24.39
3000.0	80.11	86.51	85.3	65.60	74.74	81.34	86.09	81.96	74.43	66.07	59.89	49.92	32.69
2615.2	89.31	87.41	89.3	65.01	74.64	82.47	85.73	82.98	76.68	69.05	63.27	54.20	38.70
2333.6	89.81	87.51	88.6	64.21	73.19	81.45	84.43	83.15	78.39	71.08	65.61	57.19	43.11
2121.3	89.01	87.21	87.8	62.40	71.84	79.44	82.99	82.83	79.16	72.66	67.41	59.49	46.42
1958.1	89.91	86.81	86.9	61.85	70.35	77.79	81.38	82.24	79.28	73.55	68.48	60.93	48.44
1831.2	89.11	86.01	85.8	61.73	69.72	76.45	80.00	80.59	78.69	73.43	68.49	61.24	49.59
1732.1	88.41	85.21	85.0	60.92	67.98	75.06	79.02	80.15	77.91	73.42	68.58	61.56	49.34
1659.1	88.11	84.51	84.2	60.53	67.40	74.19	77.98	79.38	77.43	72.62	67.85	61.01	50.15
1595.3	87.41	83.71	83.4	60.45	66.35	73.46	77.06	78.48	76.45	72.25	67.56	60.85	50.28
1552.9	86.51	82.61	82.5	59.64	64.52	72.90	76.39	77.55	75.49	71.20	66.56	59.95	49.44
1523.1	86.01	82.21	82.1	59.44	64.33	72.39	75.91	76.95	75.18	70.65	66.03	59.40	49.27
1509.7	85.41	81.51	81.3	59.54	64.08	71.75	74.93	76.06	74.40	70.44	65.85	59.35	49.21
1500.0	84.11	80.41	80.5	59.19	63.71	71.22	74.29	75.48	73.14	69.28	64.69	58.20	48.04
1500.7	83.41	79.41	79.9	59.16	63.09	70.65	73.61	74.90	72.46	69.05	64.46	57.96	47.81
1523.1	83.71	79.11	79.2	57.78	64.57	69.25	73.91	74.17	72.10	68.55	63.94	57.40	47.17
1557.4	82.11	78.11	78.3	57.42	63.17	68.95	73.99	73.10	71.05	67.44	62.89	56.28	45.92
1596.3	81.11	77.11	77.4	56.41	62.93	68.25	73.74	72.06	70.12	66.59	61.90	55.19	44.62
1689.1	80.11	76.11	76.6	55.47	61.43	67.78	70.51	71.20	69.05	64.00	61.25	54.40	43.55

AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	729.000
SECONDARY TEMPERATURE (R)	543.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	1.000
VELOCITY RATIO	1.727
PRIMARY VELOCITY (FT/SEC)	1188.620
MASS FLOW RATIO	1.137
PRIMARY MASS FLOW (LB/SEC)	1.168
THRUST (LBS)	11.348
ENVIRONMENTAL TEMPERATURE (R)	530.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.025
INSTRUMENTATION NOISE FLOOR (DB)	57.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	6.28549E-01	128.0	THRUST	POWER LEVEL (DB)
500	4.55368E-03	106.6	10000	157.4
1000	3.42709E-02	113.4	20000	160.4
2000	1.67612E-01	122.2	40000	163.5
4000	2.30016E-01	123.6	80000	166.5
8000	1.29902E-01	121.1		
16000	4.71591E-02	116.7		
31500	1.50293E-02	111.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	800	OCTAVE BAND 1000	2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	86.6	95.3	101.1	100.2	93.8	81.9	74.5	104.7
20.0	85.7	95.1	101.4	101.2	94.9	84.3	76.6	105.3
25.0	84.1	93.8	101.0	101.7	96.3	87.0	79.2	105.4
30.0	83.4	92.5	100.2	101.3	96.6	88.8	81.3	105.0
35.0	81.6	90.7	97.8	100.0	97.1	90.8	83.6	103.8
40.0	79.5	88.3	96.2	98.4	96.7	91.7	84.9	102.6
45.0	77.6	86.0	93.6	96.0	95.3	91.5	85.7	100.7
50.0	76.2	84.2	90.9	94.1	94.0	91.0	86.0	99.2
55.0	73.8	82.2	89.0	92.3	92.6	89.8	85.1	97.8
60.0	72.9	80.4	87.6	90.9	91.3	88.5	84.3	96.3
65.0	72.7	79.9	86.6	90.0	90.3	87.9	83.9	95.3
70.0	72.1	79.3	85.9	88.6	88.8	86.5	82.5	94.2
75.0	71.3	78.5	85.0	87.9	88.3	86.1	82.1	93.5
80.0	71.0	78.2	84.1	86.6	87.2	85.0	81.2	92.5
85.0	71.0	77.9	83.4	85.0	86.2	84.1	80.3	91.7
90.0	70.7	76.7	82.5	85.3	85.9	83.3	79.8	91.1
95.0	69.8	76.2	81.8	84.5	85.2	83.0	79.4	90.4
100.0	69.3	75.8	81.3	83.8	84.4	82.2	78.8	89.7
105.0	68.0	75.2	80.7	83.1	83.5	81.5	78.6	89.0
110.0	68.0	74.8	80.6	82.6	83.3	81.5	78.3	88.8
115.0	68.0	73.2	79.4	82.2	82.8	80.7	77.4	88.1

MODEL THRUST = 11.348 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	11.9	OCTAVE 23.8	BAND 47.6	SOUND 95.3	PRESSURE 190.6	LEVELS 381.1	750.3	1500.7	2977.5	5955.0	11910.0
5795.0	78.3 (77.8)	82.3	64.37	73.00	78.78	77.77	70.93	57.73	47.00	36.08	16.20	-20.25	-62.84
4385.7	82.61 (82.0)	89.3	65.90	75.25	81.50	81.18	74.59	63.00	52.84	43.85	28.08	-2.24	-48.33
3549.3	85.71 (84.0)	87.3	66.12	75.78	82.98	83.59	77.96	67.85	58.00	50.15	36.82	13.33	-26.17
3000.0	87.51 (86.3)	88.3	66.87	76.02	83.67	84.69	79.94	71.30	62.10	55.00	43.26	22.95	-10.40
2615.2	88.81 (87.3)	88.3	66.25	75.32	82.41	84.55	81.47	74.61	65.86	59.28	48.67	30.87	0.68
2333.6	89.81 (87.8)	88.1	65.19	73.94	81.84	83.95	82.13	76.59	68.46	62.27	52.47	36.00	9.01
2121.3	89.61 (87.3)	87.0	64.08	72.48	80.07	82.39	81.50	77.24	70.28	64.38	55.20	39.96	15.14
1936.1	89.51 (86.8)	86.2	63.36	71.36	78.08	81.22	81.01	77.48	71.40	65.73	57.02	42.72	19.59
1831.2	89.81 (85.9)	85.2	61.62	69.94	76.71	80.44	80.12	76.94	71.23	65.72	57.39	43.82	21.99
1732.1	88.21 (85.1)	84.3	61.16	68.62	75.79	79.07	79.39	76.16	70.94	65.57	57.53	44.53	23.72
1635.1	88.01 (84.8)	83.9	61.30	68.55	75.26	78.62	78.80	75.97	71.06	65.80	57.98	45.42	25.41
1596.3	87.01 (83.8)	83.0	61.09	68.26	74.82	77.56	77.62	74.88	70.03	64.85	57.20	46.99	25.57
1552.9	86.81 (83.5)	82.6	60.47	67.71	74.15	77.03	77.35	74.76	69.88	64.76	57.24	45.28	26.31
1523.1	86.01 (82.5)	81.7	60.34	67.60	73.87	76.15	76.39	73.88	69.16	64.08	56.65	44.85	26.19
1505.7	85.21 (81.8)	81.0	60.44	67.41	72.80	75.36	75.54	73.07	68.44	63.38	55.99	44.30	25.82
1800.0	84.51 (81.1)	80.4	60.15	66.18	72.00	74.75	75.23	72.30	67.93	62.87	55.51	43.85	25.43
1505.7	84.01 (80.6)	79.8	59.10	65.62	71.26	73.95	74.54	71.94	67.50	62.44	55.06	43.37	24.88
1523.1	83.11 (79.6)	78.9	58.63	65.15	70.61	73.69	73.56	71.03	66.77	61.69	54.25	42.46	23.80
1552.9	82.31 (78.8)	78.1	57.25	64.39	69.86	72.26	72.51	70.22	66.36	61.24	53.72	41.75	22.79
1596.3	81.41 (78.4)	77.5	57.01	63.74	69.58	71.67	72.88	69.47	65.86	60.88	53.03	40.82	21.41
1635.1	80.61 (77.2)	76.6	56.69	61.80	68.01	70.80	71.28	68.82	64.56	59.29	51.48	38.98	18.90

RUN NUMBER	444.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	923.000
SECONDARY TEMPERATURE (R)	837.000
PRIMARY PRESSURE RATIO	1.800
AREA RATIO	1.000
VELOCITY RATIO	.876
PRIMARY VELOCITY (FT/SEC)	1184.775
MASS FLOW RATIO	1.639
PRIMARY MASS FLOW (LB/SEC)	1.168
THRUST (LBS)	15.037
ENVIRONMENTAL TEMPERATURE (R)	530.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	.028
INSTRUMENTATION NOISE FLOOR (DB)	50.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	8.21011E-01	129.1	THRUST	POWER LEVEL (DB)
500	5.86667E-03	107.7	10000	157.4
1000	4.48707E-02	115.5	20000	160.4
2000	2.00769E-01	123.0	40000	163.4
4000	2.83636E-01	124.5	80000	166.4
8000	1.77045E-01	122.5		
16000	7.77764E-02	118.9		
31500	3.10469E-02	114.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	87.5	86.4	101.4	100.3	94.9	89.9	80.2	105.2
20.0	86.8	86.1	101.8	101.7	96.1	87.9	82.0	105.9
25.0	85.9	85.1	101.7	101.9	95.4	86.6	82.9	105.0
30.0	84.1	84.0	100.7	102.0	97.8	91.2	85.1	105.8
35.0	82.7	81.6	98.7	100.8	97.7	91.8	86.3	104.6
40.0	80.5	80.4	97.1	99.3	97.6	93.0	87.2	103.6
45.0	78.0	87.1	94.6	97.4	97.1	93.5	88.3	102.3
50.0	76.6	85.2	92.5	95.5	95.5	92.5	87.9	100.7
55.0	75.3	83.5	90.4	93.0	94.3	91.8	87.8	99.3
60.0	74.4	82.3	89.2	92.7	93.2	90.7	87.1	98.2
65.0	73.6	81.2	87.6	91.5	91.8	89.6	86.5	97.0
70.0	73.4	80.3	87.2	90.6	91.0	89.0	85.7	96.3
75.0	72.8	79.8	85.9	89.8	90.1	88.1	84.9	95.3
80.0	72.8	79.2	85.3	88.6	89.0	87.4	84.5	94.5
85.0	72.5	78.5	84.8	88.1	88.5	87.1	84.2	94.0
90.0	71.3	77.6	84.2	87.2	88.1	86.5	83.5	93.6
95.0	70.3	77.3	83.4	86.3	87.7	86.2	83.2	92.9
100.0	70.2	76.9	82.6	85.4	87.0	86.2	83.5	92.6
105.0	70.2	76.6	82.5	85.4	86.5	85.9	83.8	92.2
110.0	69.5	75.5	81.8	85.1	86.1	85.7	83.4	91.8
115.0	69.4	74.6	80.8	84.3	86.0	85.6	83.4	91.5

MODEL THRUST = 15.037 FULL SCALE THRUST = 20000.000

ANGLE	PNOM	QASPL	13.7	OCTAVE 27.4	BAND 54.8	SOUND 109.7	PRESSURE 219.4	LEVELS 438.7	863.7	1727.5	3427.5	6855.0	13710.0
15.0	87.5	86.4	81.5	84.04	72.05	77.67	76.62	70.57	60.03	50.34	38.00	15.49	-25.03
20.0	86.8	86.1	81.7	83.71	70.08	80.71	80.42	75.41	65.07	55.73	46.06	28.30	-32.40
25.0	85.9	85.1	81.0	86.72	74.86	82.50	82.96	76.66	67.42	59.82	51.10	36.15	9.92
30.0	84.1	84.0	81.0	86.32	76.20	82.94	84.19	79.58	72.16	64.08	56.25	43.15	20.52
35.0	82.7	81.6	80.5	86.10	75.01	82.12	84.15	80.70	74.12	66.87	59.66	47.65	27.74
40.0	80.5	80.4	80.5	84.94	73.78	81.50	83.58	81.68	76.47	69.11	62.35	51.50	33.23
45.0	78.0	87.1	80.4	83.23	72.40	79.79	82.56	82.05	77.68	71.27	64.85	54.71	37.83
50.0	76.6	85.2	80.3	82.99	71.79	78.99	81.81	81.75	77.63	71.74	65.98	55.99	40.18
55.0	75.3	83.5	80.0	81.80	70.04	76.67	80.35	80.54	77.54	72.29	66.34	57.18	42.20
60.0	74.4	82.3	80.0	81.40	69.32	76.17	79.65	80.02	77.02	72.18	66.39	57.56	43.23
65.0	73.6	81.2	80.0	81.06	68.65	75.19	78.89	78.96	76.32	72.10	66.43	57.86	44.03
70.0	73.4	80.3	80.0	81.11	68.01	74.68	78.28	78.53	76.08	71.66	66.08	57.71	44.27
75.0	72.8	79.8	80.0	80.81	67.13	73.90	77.67	77.82	75.41	71.16	65.66	57.43	44.27
80.0	72.8	79.2	80.0	80.81	67.13	73.90	77.67	77.82	75.41	71.16	65.66	57.43	44.27
85.0	72.5	78.5	80.0	80.98	67.35	73.38	76.88	76.98	74.95	71.00	65.85	57.72	44.75
90.0	71.3	77.6	80.0	80.79	66.71	72.99	76.26	76.56	74.76	70.74	65.32	57.25	44.60
95.0	70.3	77.3	80.0	80.48	66.10	72.41	75.44	76.11	74.16	70.12	64.70	56.65	43.84
100.0	70.2	76.9	80.0	80.48	65.53	71.62	74.46	75.77	73.88	69.80	64.37	56.31	43.65
105.0	70.2	76.6	80.0	80.38	65.09	70.69	73.67	74.94	73.68	69.66	64.51	56.38	43.61
110.0	69.5	75.5	80.0	80.21	64.44	70.41	73.35	74.27	73.24	70.03	64.53	56.30	43.14
115.0	69.4	74.6	80.0	80.28	64.49	70.41	73.35	74.27	73.24	70.03	64.53	56.30	43.14
120.0	69.4	74.6	80.0	80.28	64.49	70.41	73.35	74.27	73.24	70.03	64.53	56.30	43.14

RUN NUMBER	450.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (H)	927.000
SECONDARY TEMPERATURE (H)	943.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	2.007
VELOCITY RATIO	0.379
PRIMARY VELOCITY (FT/SEC)	1187.340
MASS FLOW RATIO	0.994
PRIMARY MASS FLOW (LB/SEC)	0.168
THRUST (LBS)	8.545
ENVIRONMENTAL TEMPERATURE (H)	533.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO OY/50 CM)	0.020
INSTRUMENTATION NOISE FLOOR (DB)	55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.06136E-01	127.0	THRUST	POWER LEVEL (DB)
500	2.19488E-03	103.4	10000	157.7
1000	1.68004E-02	112.3	20000	160.7
2000	9.49609E-02	119.8	40000	163.7
4000	1.74675E-01	122.4	60000	166.7
8000	1.27320E-01	121.0		
16000	6.41228E-02	116.1		
31500	2.40355E-02	113.4		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	OCTAVE BAND 2000	OCTAVE BAND 4000	OCTAVE BAND 8000	OCTAVE BAND 16000	31500	OVER ALL
15.0	83.2	92.0	98.2	98.3	91.7	80.5	74.3	102.3
20.0	81.7	91.5	98.7	99.6	94.0	83.7	76.3	103.2
25.0	81.2	90.6	98.2	100.1	95.3	87.0	79.6	103.5
30.0	80.1	89.2	97.8	100.2	96.5	89.0	83.2	103.8
35.0	78.5	87.7	96.0	99.4	97.1	91.0	85.4	103.1
40.0	76.5	85.6	93.8	97.6	96.8	92.8	87.1	102.0
45.0	74.8	83.4	91.5	95.2	95.0	92.6	87.6	100.4
50.0	72.4	81.7	89.2	93.1	93.4	92.8	88.4	99.2
55.0	71.6	79.6	87.3	91.1	92.9	91.8	87.5	97.8
60.0	70.4	78.3	85.2	89.5	91.4	90.2	86.7	96.2
65.0	69.3	77.3	84.0	88.2	90.2	89.2	85.7	95.1
70.0	68.5	76.8	83.0	87.1	89.1	88.1	84.9	94.1
75.0	67.0	75.9	82.3	86.3	88.1	87.2	83.8	93.1
80.0	65.0	75.6	81.7	85.7	87.5	86.8	83.3	92.6
85.0	63.3	74.1	81.0	84.8	86.9	85.9	82.9	91.9
90.0	61.3	73.6	80.4	83.9	85.7	84.8	81.7	90.8
95.0	60.0	73.4	79.5	83.3	84.9	84.1	81.2	90.1
100.0	58.9	73.4	79.0	83.0	84.5	83.4	80.8	89.7
105.0	58.0	73.0	78.4	81.9	83.9	82.8	80.1	89.0
110.0	55.1	71.9	78.2	81.5	83.5	82.1	79.3	88.3
115.0	55.6	71.2	77.6	81.2	82.8	81.7	79.3	88.0

MODEL THRUST A		8.548		FULL SCALE THRUST B		20000.000								
Lc	PNDB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS							
			1000	2000	4000	8000	16000	31500	63000	126000	252000	504000	1008000	
4945.0	70.01	73.37	81.1	82.24	71.00	77.19	77.17	70.20	87.93	89.08	59.35	21.03	-10.98	-486.43
4985.7	80.8	80.01	84.5	83.09	72.93	80.07	80.40	74.97	83.90	84.50	46.44	32.45	7.73	-36.18
5047.3	84.4	83.21	86.6	84.41	73.87	81.43	81.28	78.26	86.33	86.25	53.14	41.26	20.28	-15.42
5100.0	87.4	85.01	88.1	84.82	73.88	82.49	82.78	80.43	87.84	86.69	54.23	48.72	30.31	-1.13
5210.2	89.51	87.13	88.9	84.41	73.61	81.92	82.23	82.81	87.03	86.30	63.37	53.82	37.77	10.67
5333.6	90.61	88.21	88.7	83.43	72.47	80.65	81.45	83.54	79.02	78.22	66.53	57.88	42.86	18.34
5471.3	90.81	88.31	87.4	82.55	71.10	79.10	82.84	83.12	79.76	79.77	68.33	60.01	46.76	23.72
5620.1	91.4	88.31	87.4	81.30	70.15	77.63	81.45	82.64	80.44	79.35	70.09	62.18	49.26	29.22
5781.7	91.07	87.71	86.6	80.61	68.60	76.26	80.07	81.74	80.34	78.14	70.03	62.44	50.14	30.29
5955.1	89.41	85.91	85.8	79.87	67.73	74.64	78.92	80.68	79.23	74.43	66.93	62.59	50.81	31.66
6140.3	89.01	85.21	84.1	79.75	66.37	73.16	77.27	79.15	78.66	74.31	69.40	62.25	50.86	32.41
6337.4	87.21	84.51	83.1	79.39	66.75	72.77	76.70	78.42	77.48	73.05	69.11	62.11	51.02	33.31
6545.1	87.41	84.01	83.1	79.56	66.23	72.34	76.24	78.01	77.16	73.07	68.28	61.38	50.92	33.21
6764.7	87.21	83.31	82.5	79.68	65.70	71.47	75.43	77.44	76.95	72.74	68.02	61.20	50.49	33.65
6996.0	86.21	82.31	81.5	79.44	64.87	71.13	74.63	76.31	76.17	72.44	67.74	60.97	50.34	33.67
7239.7	85.41	81.51	80.7	79.45	64.34	70.16	73.98	75.51	75.14	71.28	66.55	59.80	49.19	34.37
7495.1	84.41	80.41	80.2	79.47	63.94	69.41	73.42	74.96	74.63	70.78	66.01	59.24	48.61	34.74
7762.4	83.81	79.41	79.3	79.30	63.41	68.44	72.31	73.14	72.74	69.35	65.49	58.67	47.95	35.42
8041.1	82.41	78.91	78.4	79.32	62.07	68.15	71.57	73.05	71.46	68.33	64.81	58.81	47.50	36.50
8331.1	82.11	78.21	77.8	79.67	61.42	67.41	71.02	72.68	71.13	67.94	64.07	59.92	46.83	37.70

NOI NUMBER	= 451.000
AIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (RI)	= 923.000
SECONDARY TEMPERATURE (RI)	= 537.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 2.007
VELOCITY RATIO	= .724
PRIMARY VELOCITY (FT/SEC)	= 1164.775
MASS FLOW RATIO	= 2.417
PRIMARY MASS FLOW (LB/SEC)	= .170
THRUST (LBS)	= 17.218
ENVIRONMENTAL TEMPERATURE (RI)	= 531.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO OY/50 CM)	= .022
INSTRUMENTATION NOISE FLOOR (DB)	= 58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL-SCALED FOR THRUST	
OVERALL	9.24003E-01	129.7	THRUST	POWER LEVEL(DB)
500	6.82588E-03	108.3	18000	157.3
1000	4.68215E-02	116.7	20000	160.3
2000	1.98836E-01	123.0	40000	163.3
4000	3.11082E-01	124.9	80000	166.3
8000	2.19735E-01	123.4		
16000	1.04510E-01	120.2		
31500	3.60932E-02	115.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	87.6	95.0	98.7	96.8	90.6	82.0	76.1	102.4
20.0	86.8	95.1	100.0	98.0	91.7	83.1	77.8	103.4
25.0	86.0	94.7	100.1	99.9	94.1	85.5	79.8	104.2
30.0	85.0	93.4	100.0	101.0	95.9	87.4	81.6	104.7
35.0	82.9	91.6	99.0	101.3	98.2	91.0	84.0	104.9
40.0	80.7	90.4	97.6	100.2	98.8	93.4	86.6	104.4
45.0	79.4	88.7	95.7	98.7	98.9	94.3	87.9	103.6
50.0	77.8	87.0	94.5	97.0	97.4	94.2	89.0	102.4
55.0	76.7	85.6	92.9	95.4	96.0	93.7	88.6	101.1
60.0	76.3	84.7	91.3	94.1	94.9	93.1	89.0	100.1
65.0	76.3	83.9	90.6	93.1	94.0	92.4	88.3	99.2
70.0	75.2	83.1	90.0	92.2	93.1	91.5	87.6	98.4
75.0	75.3	82.6	89.2	91.2	91.9	90.4	86.9	97.4
80.0	74.3	82.3	88.2	90.7	91.5	90.2	86.7	96.9
85.0	73.5	81.2	87.6	90.1	90.6	88.8	85.4	96.0
90.0	73.9	80.5	86.9	89.5	90.2	88.6	85.2	95.6
95.0	72.8	79.8	86.5	89.0	89.7	88.0	84.2	95.0
100.0	72.1	79.1	85.9	88.2	88.9	87.4	84.2	94.4
105.0	70.4	78.5	85.0	88.0	88.4	86.7	83.5	93.8
110.0	70.5	77.2	84.0	86.7	88.2	86.4	83.0	96.0
115.0	70.3	76.2	82.8	86.9	89.0	85.9	82.7	92.9

MODEL THRUST = 17.218 FULL SCALE THRUST = 20000.000

L.	PND9.	OASPL	OCTAVE 14.7	BAND 29.3	SOUND 58.7	PRESSURE 117.4	LEVELS 234.7	469.5	924.2	1848.5	3697.6	7335.2	14670.4
8795.6	74.21	73.77	78.1	83.58	78.97	74.59	72.42	65.83	55.23	45.10	32.01	8.11	-35.11 -107.68
4305.7	78.01	78.11	81.6	65.17	73.45	78.29	76.11	69.37	59.43	50.85	40.21	21.40	-12.04 -67.63
3549.3	83.11	82.33	84.1	66.17	74.48	80.29	79.94	73.70	64.08	56.76	48.57	30.78	3.15 -42.61
3000.0	86.01	84.91	86.2	66.64	75.03	81.60	82.50	77.04	67.69	59.68	51.46	37.64	13.82 -25.15
2615.2	88.51	87.21	87.6	65.80	74.49	81.78	83.48	80.83	72.66	63.70	56.15	43.72	22.57 -11.79
2333.6	90.41	88.71	88.0	64.59	74.20	81.44	83.96	82.29	76.14	67.61	60.54	49.13	29.93 -1.05
2121.3	91.11	89.11	87.8	64.06	73.41	80.31	83.28	82.61	78.02	70.04	63.34	52.70	34.98 6.54
1958.1	91.41	89.11	87.4	63.15	72.36	79.23	82.28	82.49	78.68	71.98	65.57	55.51	38.93 12.45
1831.2	91.01	88.51	86.7	62.67	71.59	78.81	81.29	81.71	78.40	72.30	66.11	56.51	40.80 15.45
1732.1	90.91	88.01	86.2	62.71	71.11	77.71	80.44	81.08	78.77	73.32	67.30	58.06	43.04 19.27
1655.1	90.61	87.11	85.0	63.11	70.68	77.41	79.84	80.56	78.47	73.14	67.26	58.29	43.81 20.96
1596.3	90.31	87.11	85.3	62.30	70.23	77.09	79.23	79.98	77.95	73.14	67.36	58.61	44.53 22.39
1552.9	89.51	86.41	84.5	62.71	69.95	76.52	78.47	79.04	77.12	72.39	66.68	58.06	44.31 22.69
1523.1	89.41	86.21	84.2	61.82	69.40	75.71	78.21	78.78	77.01	72.44	66.79	58.30	44.73 23.46
1505.7	88.31	85.11	83.4	61.12	69.00	75.24	77.65	78.03	75.73	71.26	65.04	57.21	43.76 22.71
1500.0	86.91	84.81	83.0	61.56	68.14	74.52	77.04	77.69	75.61	71.03	65.42	57.01	43.60 22.42
1505.7	87.31	84.11	82.4	60.48	67.63	74.11	76.55	77.11	74.94	70.04	64.41	55.99	42.54 21.48
1523.1	86.71	83.41	81.7	59.69	66.67	73.19	75.72	76.25	74.26	69.92	64.26	55.77	42.20 20.94
1552.9	85.91	82.51	80.9	59.22	65.91	72.35	75.24	75.58	73.41	69.97	63.27	54.67	40.89 19.27
1596.3	87.71	85.11	85.0	57.70	64.35	71.14	73.40	74.10	72.76	69.23	62.45	53.70	39.62 17.48
1655.1	84.21	81.11	79.4	57.09	62.94	69.66	73.62	74.58	72.01	67.49	61.01	52.64	38.16 15.31

RUN NUMBER	= 452.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 920.000
SECONDARY TEMPERATURE (R)	= 531.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 2.001
VELOCITY RATIO	= .849
PRIMARY VELOCITY (FT/SEC)	= 1187.900
MASS FLOW RATIO	= 3.144
PRIMARY MASS FLOW (LB/SEC)	= .160
THRUST (LBS)	= 23.173
ENVIRONMENTAL TEMPERATURE (R)	= 529.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DY/50 CM)	= .032
INSTRUMENTATION NOISE FLOOR (DB)	= 59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.70900E+00	132.3	THRUST	POWER LEVEL (DB)
500	1.29376E-02	111.1	10000	158.7
1000	8.44681E-02	119.3	20000	161.7
2000	3.50735E-01	125.4	40000	164.7
4000	5.41811E-01	127.3	80000	167.7
8000	4.28098E-01	126.3		
16000	2.10173E-01	123.2		
31500	8.07758E-02	119.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.3	97.6	99.9	97.8	93.8	86.5	80.5	104.1
20.0	89.5	97.6	101.1	99.5	95.4	87.4	81.7	105.1
25.0	88.8	96.9	101.9	100.9	96.4	88.9	83.1	105.9
30.0	88.0	96.1	101.8	102.1	97.7	90.7	85.4	106.4
35.0	85.5	94.1	101.2	103.3	100.0	92.8	87.1	107.0
40.0	83.5	92.7	100.0	102.4	100.4	94.4	85.3	106.4
45.0	82.1	91.3	98.9	101.9	102.9	96.0	89.6	106.2
50.0	80.4	89.5	97.2	100.2	100.0	96.8	91.4	105.2
55.0	79.6	88.4	96.0	98.9	99.2	96.7	92.1	104.3
60.0	78.8	87.0	95.0	97.7	98.1	96.0	91.5	103.3
65.0	78.5	86.8	94.4	97.0	97.3	95.5	91.8	102.7
70.0	78.1	85.5	93.2	96.1	96.2	94.4	90.8	101.7
75.0	78.1	85.6	92.5	95.4	95.6	93.8	90.4	101.1
80.0	77.2	84.7	92.0	95.1	95.2	93.5	89.9	100.7
85.0	76.7	84.4	91.2	94.2	94.7	93.0	89.5	100.0
90.0	76.5	83.7	90.5	93.7	94.2	92.4	88.9	99.5
95.0	76.0	82.9	89.8	93.0	93.6	92.1	88.8	99.0
100.0	74.9	82.2	89.2	92.3	93.0	91.8	88.3	98.4
105.0	73.8	81.3	88.3	91.8	92.6	91.3	88.0	97.9
110.0	73.8	80.2	87.2	91.4	92.2	90.7	87.9	97.4
115.0	73.2	79.5	86.5	91.0	92.3	90.7	87.9	97.2

MODEL THRUST = 23.173 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 17.0	BAND 34.0	SOUND 68.1	PRESSURE 136.2	LEVELS 272.3	344.6	1072.2	2144.5	4254.9	8569.8	17114.5
8795.6	75.71 (75.2)	78.5	64.97	72.21	74.49	72.11	67.34	57.88	46.67	31.74	4.54	-44.87	-124.15
4385.7	80.41 (79.8)	81.9	66.60	74.67	78.07	76.27	71.56	61.98	52.38	40.35	19.04	-10.47	-79.41
3549.3	84.11 (83.3)	86.6	67.67	75.78	80.76	79.67	74.59	65.74	56.84	46.53	28.71	-2.22	-52.43
3008.0	87.01 (86.0)	89.5	68.34	76.48	82.17	82.29	77.50	69.34	61.36	52.19	36.66	10.05	-32.85
2615.2	89.81 (88.6)	92.3	67.07	75.65	82.74	84.70	81.07	72.91	64.81	56.42	42.51	18.92	-18.96
2333.4	91.11 (89.7)	93.7	66.11	75.27	82.48	84.82	82.45	75.63	67.45	59.64	46.90	25.54	-8.50
2121.3	92.51 (90.9)	94.9	65.44	74.68	82.25	85.12	83.89	78.17	69.83	62.46	50.60	36.41	-3.31
1958.1	93.01 (91.0)	95.9	64.47	73.59	81.29	84.14	83.70	74.75	72.67	65.59	54.41	36.01	6.98
1831.2	93.21 (90.9)	96.6	64.22	73.67	80.63	83.47	83.45	80.27	74.05	67.28	56.63	39.22	11.46
1732.1	93.01 (90.5)	98.1	63.95	72.18	80.15	82.70	82.94	80.12	74.44	67.88	57.65	41.02	14.98
1655.1	92.91 (90.2)	97.9	64.02	72.38	79.92	82.47	82.50	80.12	74.95	68.54	58.63	42.61	17.59
1596.3	92.21 (89.5)	97.1	64.00	71.33	79.03	81.45	81.71	79.32	74.28	68.00	58.33	42.77	18.54
1552.9	92.11 (89.2)	96.8	64.24	71.65	78.57	81.41	81.35	79.01	74.25	68.05	58.57	43.35	16.49
1523.1	91.91 (89.0)	96.6	63.51	70.92	78.26	81.24	81.20	78.91	73.96	67.82	58.46	43.48	20.22
1505.7	91.41 (88.5)	96.0	63.03	70.76	77.54	80.45	80.72	78.52	73.63	67.53	58.24	43.39	20.37
1500.9	90.91 (88.0)	95.5	62.86	70.07	76.42	79.99	80.26	77.97	73.11	67.02	57.76	42.96	20.30
1505.7	90.41 (87.5)	94.9	62.40	69.23	76.18	79.24	79.66	77.65	72.90	66.80	57.52	42.67	19.64
1523.1	89.71 (86.7)	94.2	61.14	68.48	75.42	78.43	78.96	77.20	72.35	66.21	56.45	41.86	18.60
1552.9	89.01 (86.0)	93.6	59.92	67.36	76.34	77.76	78.39	76.50	71.86	65.47	56.18	40.96	17.31
1596.3	88.21 (85.3)	92.8	59.68	66.05	73.65	77.15	77.77	75.63	71.34	65.09	55.82	39.86	15.63
1655.1	87.41 (84.8)	92.3	58.78	64.99	71.99	76.41	77.52	75.28	70.98	64.57	54.46	38.63	13.42

RUN NUMBER	453.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (IN)	927.000
SECONDARY TEMPERATURE (IN)	930.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	4.856
VELOCITY RATIO	.375
PRIMARY VELOCITY (FT/SEC)	1187.340
MASS FLOW RATIO	2.675
PRIMARY MASS FLOW (LB/SEC)	.170
THRUST (LBS)	12.460
ENVIRONMENTAL TEMPERATURE (IN)	930.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (INV TO DY/50 CM)	.020
INSTRUMENTATION NOISE FLOOR (DB)	55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.00426E-01	127.0	THRUST	POWER LEVEL (DB)
			10000	156.0
500	3.63170E-03	105.6	20000	159.0
1000	2.42206E-02	113.8	40000	162.1
2000	1.10769E-01	120.4	80000	165.1
4000	1.76001E-01	122.5		
8000	1.16357E-01	120.7		
16000	5.11856E-02	117.1		
31500	1.82612E-02	112.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	85.4	93.4	98.7	97.7	89.8	77.0	72.1	102.3
20.0	84.5	92.7	99.1	98.8	91.3	78.7	71.5	102.8
25.0	83.3	91.4	98.9	99.9	93.4	82.2	76.1	103.4
30.0	81.8	91.0	97.9	99.9	95.1	86.2	79.5	103.3
35.0	80.9	89.3	96.7	99.2	96.2	89.4	82.5	102.8
40.0	78.3	87.7	94.8	97.8	96.1	90.8	84.3	101.8
45.0	76.7	85.4	92.6	95.8	95.6	91.9	86.1	100.6
50.0	75.1	83.1	90.4	93.4	94.3	91.3	86.3	99.1
55.0	74.2	81.7	88.0	91.8	93.0	90.6	86.0	97.7
60.0	72.7	80.8	87.0	90.2	91.7	89.7	85.6	96.5
65.0	72.5	79.2	86.0	89.1	90.5	88.7	84.8	95.0
70.0	71.6	78.1	84.4	87.9	89.6	88.0	84.4	94.5
75.0	70.9	77.8	83.9	87.5	88.7	87.4	83.9	93.8
80.0	70.4	77.0	82.8	86.4	88.1	86.8	83.2	93.1
85.0	70.4	76.8	82.3	85.4	87.1	85.5	81.8	92.6
90.0	69.3	75.8	81.5	84.8	86.4	85.0	81.4	91.4
95.0	69.3	75.2	80.8	84.0	85.6	84.5	81.2	90.7
100.0	68.0	74.7	79.9	83.3	84.8	83.4	80.4	89.9
105.0	68.0	74.1	79.4	82.6	84.0	82.8	79.6	89.2
110.0	67.3	73.4	79.3	82.2	83.4	82.0	79.3	88.7
115.0	67.3	72.6	78.5	81.7	82.9	81.4	79.2	88.2

MODEL THRUST = 12.460 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE		BAND	SOUND	PRESSURE	LEVELS					
			12.5	25.0	49.9	99.8	199.7	399.4	798.2	1572.5	3120.0	6240.0	12480.0
9795.6	74.91	74.41	79.5	62.76	70.75	75.98	74.79	66.48	52.25	43.81	32.51	11.79	-26.18
4385.7	79.41	78.71	82.5	64.30	72.50	78.78	78.41	70.51	56.91	49.00	39.67	23.26	-6.14
3949.3	83.11	82.21	84.9	64.92	73.53	80.37	81.40	74.56	62.52	54.30	46.17	32.32	7.96
3000.0	85.41	84.41	86.2	64.89	74.03	80.98	82.49	77.83	68.23	59.66	52.33	40.16	19.09
2615.2	87.71	86.11	86.9	65.19	73.57	80.97	83.35	80.18	72.70	64.21	57.44	46.44	27.70
2333.6	88.81	87.01	86.9	63.55	72.93	80.02	82.43	81.09	75.25	67.26	60.89	50.75	33.70
2121.3	89.81	87.31	86.5	62.75	71.46	78.66	81.03	81.40	77.21	70.14	64.07	54.59	38.82
1958.1	89.51	86.81	85.6	61.92	69.90	77.13	80.33	80.88	77.39	71.21	65.38	56.39	41.63
1831.2	89.11	86.21	84.8	61.53	69.01	75.39	79.07	80.16	77.32	71.62	65.98	57.38	43.38
1732.1	88.81	85.61	84.1	60.53	68.62	74.78	78.02	79.34	76.88	71.75	66.25	57.96	44.93
1655.1	88.11	84.81	83.0	60.72	67.45	72.23	77.26	78.55	76.37	71.42	66.03	57.97	45.00
1596.3	87.91	84.51	82.4	60.17	66.69	72.42	76.44	77.91	76.00	71.45	66.14	58.26	45.65
1552.9	87.61	84.11	82.4	59.69	66.48	72.71	76.24	77.31	75.60	71.69	65.85	58.10	45.75
1523.1	87.11	83.61	81.8	59.35	66.00	71.75	75.27	76.90	75.23	70.70	65.50	57.84	45.67
1505.7	86.01	82.51	80.9	59.45	65.44	71.39	74.43	76.00	74.01	69.39	64.22	56.62	44.55
1500.0	85.51	81.91	80.3	58.36	64.88	70.40	73.86	75.33	73.51	69.07	63.90	56.32	44.20
1505.7	84.91	81.31	79.6	58.33	64.23	69.84	73.01	74.44	72.97	68.78	63.60	56.00	43.93
1523.1	83.91	80.21	78.6	56.94	63.43	68.45	72.20	73.53	71.85	67.86	62.86	55.00	42.83
1552.9	77.91	74.31	77.8	56.77	62.43	68.14	71.34	72.63	70.44	66.93	61.69	53.94	41.59
1596.3	72.01	70.41	77.0	55.41	61.94	67.74	70.65	71.74	69.98	66.34	61.03	53.15	40.54
1655.1	81.31	77.61	76.2	55.49	60.80	66.77	69.87	70.96	69.25	65.81	60.42	52.38	39.39

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	454.00 (759.00)
PRIMARY TEMPERATURE (IN)	6.100
SECONDARY TEMPERATURE (IN)	926.000
PRIMARY PRESSURE RATIO	543.000
AREA RATIO	1.000
VELOCITY RATIO	4.846
PRIMARY VELOCITY (FT/SEC)	778
MASS FLOW RATIO	1166.699
PRIMARY MASS FLOW (LB/SEC)	5.811
THRUST (LBS)	32.450
ENVIRONMENTAL TEMPERATURE (IN)	526.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.900
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (INV TO DV/50 CH)	.025
INSTRUMENTATION NOISE FLOOR (DB)	57.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST.	
OVERALL	1.21416E+00	130.8	THRUST	POWER LEVEL (DB)
300	1.90962E-02	112.8	10000	155.7
1000	1.01732E-01	120.1	20000	156.7
2000	3.30077E-01	125.2	40000	161.8
4000	3.94656E-01	126.0	80000	164.8
8000	2.32071E-01	123.7		
16000	9.93438E-02	120.0		
31500	3.71833E-02	115.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.0	97.8	99.5	95.7	88.9	81.7	76.6	103.3
20.0	91.1	98.0	100.7	96.9	89.6	82.9	78.1	104.1
25.0	90.2	97.7	101.7	98.5	91.6	84.6	80.0	104.9
30.0	89.0	96.5	101.4	99.7	92.9	86.6	81.9	104.4
35.0	87.2	95.5	101.0	100.3	94.8	88.5	83.6	105.0
40.0	85.1	93.5	99.5	100.8	96.9	90.3	84.9	104.8
45.0	84.0	92.2	98.4	100.5	97.8	92.3	86.5	104.5
50.0	82.0	90.3	96.9	98.8	98.8	92.3	87.3	103.2
55.0	82.4	89.7	95.9	98.3	94.9	92.5	87.2	102.8
60.0	80.7	88.1	94.7	97.2	96.1	92.7	88.2	101.9
65.0	80.5	87.7	93.7	96.1	95.3	92.3	88.1	101.1
70.0	80.2	86.8	93.2	95.4	94.6	91.7	87.7	100.5
75.0	79.3	86.3	92.6	95.0	93.8	91.1	87.0	99.9
80.0	79.4	85.7	91.4	94.3	93.4	91.0	87.0	99.3
85.0	78.7	85.1	90.9	93.4	92.7	90.4	86.5	98.6
90.0	78.2	84.7	90.0	92.8	92.3	89.8	86.3	98.0
95.0	77.6	84.1	89.7	92.2	91.7	89.4	85.8	97.5
100.0	76.8	83.0	89.0	91.5	91.2	88.8	85.3	96.9
105.0	76.2	82.4	88.4	91.5	90.6	88.5	84.9	96.5
110.0	76.0	81.6	87.9	91.0	90.5	88.3	84.9	96.2
115.0	75.3	80.5	86.8	90.5	89.9	87.7	84.1	95.5

MODEL THRUST = 32.450 FULL SCALE THRUST F 20000.000

L.	PNOS.	OASPL	OCTAVE 20.1	BAND 40.3	SOUND 80.6	PRESSURE 161.1	LEVELS 322.2	644.5	1268.8	2537.7	5035.1	10070.1	20140.3
3943.6	72.31	72.01	70.2	69.21	71.09	72.36	68.37	60.57	50.84	39.20	21.83	-9.57	-84.87
4305.7	76.61	76.11	79.5	66.74	73.63	76.21	72.16	64.03	55.28	45.70	31.84	7.33	-35.25
3549.3	80.51	79.91	82.1	67.61	75.09	79.10	75.68	68.08	59.44	50.92	39.13	18.72	-16.31
3008.0	83.31	82.51	83.6	67.94	75.37	80.26	78.39	71.07	63.33	55.36	44.93	27.22	-2.85
2615.2	85.51	84.51	84.9	67.29	75.57	81.04	80.23	74.23	66.69	58.87	49.39	33.57	6.97
2333.4	87.21	86.11	85.6	66.17	74.54	80.45	81.73	77.40	69.67	61.73	52.95	38.51	14.45
2121.3	88.71	87.31	86.1	65.89	74.10	80.32	82.28	79.20	72.64	64.57	56.31	42.91	20.77
1950.1	88.71	87.11	85.5	64.65	72.92	79.50	81.27	78.91	73.53	66.31	58.46	45.86	25.19
1831.2	89.31	87.61	85.6	65.57	72.88	79.09	81.31	79.58	74.35	67.04	59.51	47.53	24.00
1732.1	89.41	87.51	85.2	64.40	71.78	78.30	80.73	79.30	75.09	69.70	61.41	49.91	31.28
1655.1	89.31	87.21	84.8	64.59	71.80	77.78	80.07	78.92	75.13	69.16	62.06	50.94	33.01
1594.3	89.01	86.91	84.5	64.59	71.16	77.54	79.69	78.58	74.95	69.21	62.26	51.43	34.03
1552.9	88.81	86.61	84.1	63.93	70.96	77.16	79.48	78.06	74.59	69.82	61.78	51.36	34.35
1523.1	88.41	86.21	83.7	64.21	70.49	76.18	78.97	77.43	74.70	68.96	62.19	51.72	34.98
1505.7	87.91	85.61	83.1	63.58	69.94	75.78	78.17	77.23	74.17	69.67	61.94	51.56	34.97
1500.0	87.51	85.11	82.5	63.09	69.67	74.87	77.61	76.84	73.63	68.45	61.74	51.38	34.84
1505.7	86.91	84.61	82.0	62.49	69.00	74.54	77.02	74.25	73.18	67.95	61.22	50.83	34.25
1523.1	86.21	83.81	81.3	61.64	67.74	73.78	76.17	74.99	72.42	67.33	60.56	50.69	33.34
1552.9	85.31	83.21	80.7	60.81	67.07	73.73	75.99	74.87	71.99	66.73	59.85	49.24	32.22
1594.3	85.01	82.61	80.1	60.40	66.40	72.99	75.21	74.45	71.54	66.34	59.43	48.60	31.19
1655.1	84.91	81.61	79.1	59.36	64.55	70.85	74.03	73.52	70.57	65.19	58.09	46.88	29.84

RUN NUMBER	455.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (RI)	925.000
SECONDARY TEMPERATURE (RI)	545.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	4.456
VELOCITY RATIO	.002
PRIMARY VELOCITY (FT/SEC)	1106.054
MASS FLOW RATIO	7.633
PRIMARY MASS FLOW (LB/SEC)	.168
THRUST (LBS)	47.926
ENVIRONMENTAL TEMPERATURE (RI)	526.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.900
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.036
INSTRUMENTATION NOISE FLOOR (DB)	60.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	2.90950E+00	134.6	THRUST 10000 POWER LEVEL (DB) 157.8
500	4.55968E-02	118.6	20000 160.6
1000	2.43027E-01	123.9	40000 163.9
2000	6.51765E-01	128.1	80000 166.9
4000	8.50865E-01	129.3	
8000	6.06898E-01	127.8	
16000	3.35327E-01	125.3	
31500	1.76017E-01	122.5	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	84.4	102.5	102.6	100.3	94.6	89.3	85.4	107.1
20.0	86.3	102.5	103.8	101.2	96.1	91.3	87.3	108.2
25.0	94.2	101.4	104.0	101.8	97.0	92.0	88.5	108.0
30.0	93.8	100.5	104.0	103.1	99.4	93.9	90.6	108.4
35.0	91.6	98.6	103.4	103.4	99.3	95.0	91.0	108.2
40.0	89.4	96.9	102.1	103.1	100.0	96.4	92.2	107.7
45.0	87.6	95.2	101.3	102.6	100.6	97.0	93.1	107.3
50.0	85.7	93.5	99.9	101.6	100.7	97.6	93.6	106.7
55.0	85.7	92.5	98.8	101.2	100.2	97.3	93.4	106.1
60.0	84.7	92.0	97.9	100.5	99.8	97.1	93.6	105.6
65.0	84.2	91.0	97.1	99.7	99.0	96.4	93.4	104.8
70.0	83.6	90.3	96.8	99.3	98.7	96.1	93.0	104.5
75.0	83.7	89.9	95.9	98.6	98.3	95.9	93.0	104.0
80.0	83.0	89.4	95.3	97.8	97.5	95.3	92.2	103.3
85.0	82.5	89.1	94.8	97.7	97.3	95.3	92.6	103.1
90.0	82.5	88.7	94.2	97.4	97.4	95.6	93.3	103.1
95.0	81.9	88.0	93.7	96.7	96.8	95.4	93.4	102.6
100.0	80.9	87.2	93.2	96.1	96.6	95.2	93.9	102.3
105.0	80.4	86.6	92.6	95.7	96.1	94.8	93.2	101.8
110.0	79.3	85.8	92.3	95.9	95.8	94.8	93.3	101.8
115.0	79.5	84.5	91.3	95.2	95.7	94.5	93.5	101.4

MODEL THRUST = 47.926 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE 24.5	BAND 49.0	SOUND 97.9	PRESSURE 195.8	LEVELS 391.6	783.2	1542.0	3084.0	6119.0	12238.0	24475.9
8795.6	78.71	78.51	78.2	55.86	73.96	73.89	71.14	64.07	55.23	43.23	22.58	-14.42	-78.25 -173.59
4305.7	81.61	81.21	81.7	70.26	76.40	77.58	74.65	68.48	61.00	50.96	34.61	5.88	-43.16 -119.82
3549.3	84.31	83.87	83.5	85.95	77.15	79.60	77.11	71.54	64.33	55.91	42.10	18.28	-21.97 -44.59
3000.0	87.31	86.51	85.2	71.04	77.44	81.07	79.94	74.58	68.28	60.73	48.60	28.00	-6.49 -59.87
2615.2	89.01	88.11	86.2	70.02	76.96	81.74	81.51	76.77	70.91	63.28	52.32	33.98	3.53 -43.39
2333.6	90.21	89.11	86.6	68.75	76.27	81.37	82.25	78.61	73.57	66.16	56.05	39.36	11.87 -30.33
2121.3	91.31	90.01	87.0	67.84	75.46	81.44	82.53	80.08	75.17	68.33	58.87	43.43	18.16 -20.47
1958.1	92.11	90.61	87.1	66.60	74.44	80.77	82.45	80.90	76.62	69.94	61.00	46.52	22.96 -12.92
1831.2	92.31	90.71	87.0	67.18	74.00	80.20	82.52	81.03	77.00	70.63	62.05	48.31	26.09 -7.67
1732.1	92.61	90.91	87.0	66.73	74.01	79.47	82.33	81.16	77.46	71.56	63.29	50.13	28.95 -3.14
1655.1	92.41	90.61	86.4	66.57	73.41	79.44	81.91	80.76	77.20	71.86	63.83	51.12	30.74 -.05
1596.3	92.51	90.61	86.4	66.29	73.00	79.41	81.91	80.85	77.27	71.98	64.12	51.75	32.00 2.19
1552.9	92.41	90.41	86.3	66.63	72.78	78.74	81.35	80.64	77.34	72.26	64.53	52.42	33.12 4.04
1523.1	91.91	89.91	85.8	66.06	72.46	78.38	80.78	80.10	76.92	71.77	64.13	52.20	33.21 4.63
1505.7	91.91	89.91	85.7	65.71	72.34	77.93	80.77	80.00	77.04	72.22	64.64	52.80	34.00 5.71
1500.0	92.11	89.91	85.4	65.75	71.96	77.37	80.43	80.12	77.41	72.97	65.41	53.60	34.86 6.67
1505.7	91.71	89.41	85.1	65.11	71.24	76.42	79.72	79.51	77.12	73.09	65.51	53.67	34.87 6.54
1523.1	91.41	89.11	84.7	63.96	70.33	76.25	79.44	79.18	76.89	73.34	65.75	53.81	34.82 6.24
1552.9	90.71	89.41	84.3	63.36	69.49	75.45	78.51	78.50	76.22	72.49	64.76	52.65	33.35 4.27
1596.3	90.21	87.91	83.6	62.02	68.53	74.45	78.43	77.90	75.44	72.26	64.40	52.04	32.28 2.67
1655.1	89.41	87.31	82.9	61.07	66.44	73.64	77.38	77.53	75.33	71.97	63.94	51.23	30.86 .06

RUN NUMBER	456.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	921.000
SECONDARY TEMPERATURE (R)	842.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	9.788
VELOCITY RATIO	.380
PRIMARY VELOCITY (FT/SEC)	1183.491
MASS FLOW RATIO	5.381
PRIMARY MASS FLOW (LB/SEC)	.168
THRUST (LBS)	18.847
ENVIRONMENTAL TEMPERATURE (R)	529.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.000
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO OY/50 CM)	.018
INSTRUMENTATION NOISE FLOOR (DB)	54.568

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.06892E-01	126.1	THRUST	POWER LEVEL (DB)
500	5.91801E-03	107.7	10000	153.3
1000	3.24159E-02	115.1	20000	156.4
2000	1.06908E-01	120.3	40000	159.4
4000	1.28265E-01	121.1	80000	162.4
8000	8.43299E-02	119.3		
16000	3.59418E-02	115.6		
31500	1.30752E-02	111.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVERALL
15.0	87.0	93.8	96.6	93.1	85.0	75.3	71.1	99.9
20.0	86.4	93.9	97.8	94.7	85.1	76.8	72.9	100.9
25.0	84.8	92.8	98.2	96.8	88.9	79.3	74.6	101.6
30.0	84.3	91.8	97.7	98.2	92.6	83.9	78.5	102.1
35.0	82.5	90.6	96.6	98.0	94.6	87.4	80.8	102.0
40.0	81.0	89.2	95.0	96.6	94.8	89.3	82.7	101.1
45.0	79.1	87.4	93.1	95.2	94.3	90.1	84.4	100.0
50.0	77.8	85.8	91.4	93.5	93.5	89.4	84.8	98.8
55.0	77.1	84.1	89.5	91.9	92.4	89.5	84.6	97.5
60.0	76.5	82.7	87.8	90.4	91.0	88.6	84.3	96.2
65.0	74.9	81.3	86.8	89.1	90.0	88.1	84.2	95.3
70.0	74.0	80.0	85.6	88.2	88.7	86.5	82.8	94.0
75.0	73.6	79.8	84.7	87.1	87.8	85.9	82.5	93.2
80.0	73.0	78.4	83.4	86.1	86.5	84.6	81.8	92.0
85.0	72.5	77.9	82.8	85.1	85.8	84.3	80.9	91.4
90.0	71.7	77.4	82.2	84.4	85.0	82.8	79.8	90.5
95.0	71.5	77.0	81.8	83.5	84.1	81.9	78.9	89.7
100.0	70.6	76.2	80.8	83.0	83.4	81.3	78.2	89.0
105.0	70.4	75.2	79.9	82.3	82.5	80.6	77.5	88.2
110.0	69.1	74.3	79.0	81.1	81.5	79.7	77.0	87.2
115.0	69.4	73.5	78.6	81.0	80.9	79.0	76.8	86.8

MODEL THRUST = 18.847 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE		BAND		SOUND		PRESSURE		LEVELS				
			15.3	30.7	61.4	122.8	245.6	491.2	987.0	1933.0	3837.2	7674.4	15346.8		
8795.4	69.81	69.21	75.3	82.55	89.33	72.08	88.31	59.55	47.98	39.25	29.62	.76	-44.05	-118.80	
4385.7	74.41	73.81	78.8	64.37	71.85	75.73	72.44	63.34	52.63	45.12	34.08	14.53	-20.10	-77.40	
3549.3	78.81	78.01	81.3	64.58	72.56	77.94	76.45	68.11	57.34	49.90	40.40	24.01	-4.59	-51.54	
3080.0	82.71	81.71	83.2	65.53	73.67	78.84	79.30	73.32	63.74	55.91	47.41	33.09	8.45	-31.70	
2615.2	84.81	83.61	84.2	64.94	73.02	79.03	80.31	76.58	68.62	59.89	52.10	39.24	17.37	-18.01	
2333.6	86.21	84.71	84.3	64.47	72.61	78.43	79.95	77.87	71.59	63.16	55.88	44.08	24.24	-7.65	
2121.3	87.91	85.11	84.0	63.38	71.68	77.35	79.37	78.24	73.34	65.98	59.09	48.09	29.79	5.53	
1950.1	87.11	84.91	83.5	62.78	70.76	76.34	78.40	78.10	73.91	67.27	60.68	50.30	33.17	5.93	
1831.2	85.91	84.51	82.8	62.63	69.67	75.02	77.38	77.69	74.13	67.87	61.51	51.60	35.39	9.72	
1732.1	84.41	83.71	81.9	62.08	68.78	73.84	76.36	76.75	73.81	68.17	61.99	52.46	36.96	12.52	
1655.1	86.11	83.11	81.4	61.30	67.74	73.20	75.46	76.14	73.70	68.50	62.46	53.22	38.28	14.79	
1596.3	85.11	82.21	80.5	60.73	66.76	72.30	74.41	75.20	72.43	67.50	61.57	52.55	38.03	15.27	
1552.9	84.71	81.61	79.9	60.81	66.75	71.67	74.04	74.55	72.15	67.50	61.65	52.70	38.60	16.37	
1523.1	83.71	80.51	78.9	60.15	65.56	70.75	73.15	73.39	71.03	67.00	61.20	52.46	38.47	16.21	
1505.7	83.11	79.91	78.3	59.71	65.15	70.03	72.30	72.43	70.81	66.23	60.47	51.79	37.93	16.29	
1500.0	82.11	78.91	77.5	58.97	64.64	69.41	71.57	72.02	69.39	65.14	59.39	50.73	38.91	15.34	
1505.7	81.21	77.41	76.7	58.74	64.27	68.94	70.71	71.06	68.44	64.26	58.50	49.82	39.96	14.32	
1523.1	80.21	77.01	75.8	57.77	63.32	67.90	70.07	70.26	67.76	63.37	57.58	48.83	38.84	12.91	
1552.9	79.71	76.81	74.9	57.37	62.78	66.85	69.23	69.25	66.82	62.49	56.85	47.78	37.58	11.36	
1596.3	78.01	74.81	73.7	55.87	61.07	65.73	67.82	68.00	65.71	61.66	55.74	46.72	32.20	9.44	
1655.1	77.11	73.91	72.7	55.82	59.92	64.99	67.35	67.08	64.46	61.09	55.05	45.81	30.87	7.34	

RUN NUMBER	=	457.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	4.100
PRIMARY TEMPERATURE (RI)	=	925.000
SECONDARY TEMPERATURE (RI)	=	545.000
PRIMARY PRESSURE RATIO	=	1.600
AREA RATIO	=	9.700
VELOCITY RATIO	=	.730
PRIMARY VELOCITY (FT/SEC)	=	1184.058
MASS FLOW RATIO	=	11.925
PRIMARY MASS FLOW (LB/SEC)	=	.148
THRUST (LBS)	=	58.351
ENVIRONMENTAL TEMPERATURE (RI)	=	926.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	=	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	=	.032
INSTRUMENTATION NOISE FLOOR (DB)	=	59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.05721E+00	133.1	THRUST	POWER LEVEL (DB)
500	6.61078E-02	118.2	10000	155.5
1000	2.84844E-01	124.2	20000	158.5
2000	5.78102E-01	127.6	40000	161.5
4000	5.87043E-01	127.7	80000	164.5
8000	3.32512E-01	125.2		
16000	1.53289E-01	121.9		
31500	7.53112E-02	116.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	97.1	103.4	100.3	96.3	90.2	84.0	81.4	106.4
20.0	95.6	101.6	101.5	97.8	92.0	86.2	83.0	106.2
25.0	95.9	101.2	102.4	99.4	93.7	88.1	85.3	106.7
30.0	94.3	100.6	103.0	100.1	94.5	89.2	86.2	106.9
35.0	93.1	99.6	103.3	102.1	96.3	91.3	88.0	107.0
40.0	91.3	98.1	102.5	102.7	97.7	92.7	89.2	107.2
45.0	89.5	96.5	101.5	102.4	98.9	94.3	90.3	106.9
50.0	88.1	94.7	100.4	101.3	99.1	94.4	90.4	106.0
55.0	86.9	93.4	99.3	100.1	98.8	94.8	90.8	105.2
60.0	86.0	92.7	97.6	98.8	97.8	94.3	91.0	104.1
65.0	85.6	91.7	97.0	98.0	97.5	94.3	90.9	103.5
70.0	85.4	91.2	96.1	97.4	96.5	93.8	90.7	102.9
75.0	84.9	90.5	95.2	96.6	95.6	93.2	90.3	102.1
80.0	84.3	89.6	94.3	95.8	94.6	92.4	89.6	101.2
85.0	83.2	88.9	93.8	95.2	93.7	91.4	88.6	100.5
90.0	82.8	87.8	93.0	94.4	93.3	91.6	89.3	100.0
95.0	82.3	88.0	92.8	94.5	92.9	90.8	88.1	99.7
100.0	81.7	86.9	92.5	93.7	92.4	90.6	88.3	99.2
105.0	81.1	86.6	92.0	93.2	91.7	90.0	88.0	98.7
110.0	79.4	85.6	91.4	92.9	91.7	89.7	87.6	98.3
115.0	79.6	84.6	90.6	92.5	91.4	89.4	87.1	97.8

MODEL THRUST = 58.351 FULL SCALE THRUST = 20000.000

L.	PNDH.	OASPL	27.0	54.0	108.0	216.0	432.0	864.0	1701.5	3402.9	6751.8	13503.6	27007.2
3795.6	72.91	72.71	76.8	67.71	73.95	70.58	68.13	58.52	49.11	36.59	14.07	-26.04	-94.48
4384.7	77.41	77.11	79.0	69.64	74.64	74.37	70.30	63.25	54.42	44.38	26.61	-4.47	-57.00
3549.7	71.31	70.91	71.3	70.84	76.08	77.14	73.83	67.13	59.14	50.74	35.78	18.05	-33.63
3800.0	83.81	83.21	82.9	70.67	76.91	74.28	76.05	69.60	62.27	54.61	41.51	19.30	-17.58
2615.2	76.91	76.01	74.6	70.67	77.09	80.73	79.30	72.78	65.97	58.65	46.84	27.10	-5.43
2333.6	78.51	77.61	75.4	69.81	76.59	80.94	80.94	75.25	68.64	61.58	50.72	32.78	3.43
2121.3	79.61	78.51	75.8	68.89	75.49	80.84	81.52	77.43	71.35	64.03	53.88	37.30	10.34
1958.1	79.71	78.61	75.6	68.14	74.75	80.18	81.12	78.37	72.30	65.23	55.63	40.09	14.98
1831.2	79.11	78.81	75.3	67.57	74.04	79.65	80.47	78.75	73.49	66.62	57.46	42.73	19.05
1732.1	79.91	79.41	74.7	67.13	73.78	78.71	79.73	78.22	73.54	67.59	58.67	44.58	22.02
1655.1	79.01	78.41	74.5	67.18	73.24	78.44	79.28	78.33	74.02	68.04	59.46	45.86	24.17
1596.3	79.71	79.01	74.1	67.27	73.21	77.85	79.06	77.74	73.86	68.31	59.93	46.71	25.68
1552.4	79.21	78.51	73.6	65.98	72.54	77.17	78.58	77.07	73.57	68.25	60.02	47.07	26.54
1521.1	79.51	78.71	72.9	66.50	71.79	76.47	77.82	76.27	72.96	67.84	59.71	48.95	26.75
1509.7	79.91	79.01	72.1	65.53	71.28	76.08	77.30	75.48	72.10	67.93	58.86	48.22	26.21
1500.0	79.61	78.71	71.7	65.17	70.21	75.31	76.63	75.04	72.29	67.72	59.67	47.06	27.12
1505.7	79.01	78.21	71.5	64.82	70.35	75.13	76.48	74.66	71.50	67.49	58.42	45.78	25.77
1523.1	79.61	78.71	71.9	63.97	69.14	74.73	75.76	74.07	71.21	67.52	59.39	45.64	25.47
1552.9	79.71	78.81	71.1	63.22	68.46	74.00	75.03	73.11	70.10	66.04	57.77	44.83	24.29
1596.3	79.11	78.31	70.5	61.25	67.00	73.16	74.54	72.86	69.82	65.18	56.40	43.58	22.56
1655.1	78.11	77.51	70.7	61.09	66.09	72.11	73.74	72.24	69.17	64.21	55.84	42.04	20.35

RUN NUMBER	458.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	924.000
SECONDARY TEMPERATURE (R)	538.000
PRIMARY PRESSURE RATIO	1.400
AREA RATIO	9.788
VELOCITY RATIO	.876
PRIMARY VELOCITY (FT/SEC)	1146.054
MASS FLOW RATIO	15.089
PRIMARY MASS FLOW (LB/SEC)	.168
THRUST (LBS)	88.156
ENVIRONMENTAL TEMPERATURE (R)	526.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/SQ CH)	.056
INSTRUMENTATION NOISE FLOOR (DB)	64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.42254E+00	137.3	THRUST	POWER LEVEL (DB)
500	2.23126E-01	123.5	10000	157.9
1000	7.71175E-01	128.9	20000	160.9
2000	1.39383E+00	131.4	40000	163.9
4000	1.37437E+00	131.4	80000	166.9
8000	8.48151E-01	129.3		
16000	5.06844E-01	127.0		
31500	3.05041E-01	124.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
		1000	2000	4000	8000	16000	ALL
15.0	103.2	107.2	105.1	100.8	95.5	90.7	110.9
20.0	102.5	107.2	106.5	102.3	97.3	92.3	111.5
25.0	101.4	106.7	107.1	103.9	98.7	93.7	111.7
30.0	99.9	105.7	106.9	104.5	99.3	94.7	111.4
35.0	98.2	104.1	107.1	105.4	100.9	96.6	111.4
40.0	96.1	102.3	105.7	105.4	101.5	97.6	110.6
45.0	94.4	100.3	104.6	105.0	101.7	97.9	109.9
50.0	92.5	98.8	103.3	104.2	101.8	98.3	109.1
55.0	91.2	97.9	102.5	103.3	101.7	98.9	108.6
60.0	90.9	96.8	101.8	102.7	101.4	98.7	108.1
65.0	89.9	95.6	100.4	101.7	100.8	98.3	107.3
70.0	90.3	95.1	99.7	101.0	100.0	97.7	106.6
75.0	89.4	94.6	99.3	100.6	99.6	97.9	106.3
80.0	88.7	94.1	98.6	100.0	99.3	97.5	105.8
85.0	88.6	93.5	98.1	99.8	99.8	97.2	105.5
90.0	87.4	92.6	97.2	99.2	99.5	97.2	105.0
95.0	86.4	91.9	96.7	98.9	98.1	97.3	104.8
100.0	86.3	92.1	96.5	98.4	98.1	97.4	104.7
105.0	85.7	91.4	96.3	98.3	97.7	97.4	104.5
110.0	84.9	90.6	95.8	98.4	97.8	97.6	104.5
115.0	84.7	89.4	95.5	98.0	97.7	97.4	104.2

MODEL THRUST = 88.156 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	33.2	66.4	132.8	265.6	531.1	1062.3	2091.3	4182.6	8288.9	16597.8	33195.6
9795.6	77.01	70.91	79.4	72.07	75.90	73.84	68.55	61.11	51.14	38.15	9.16	-38.13	-118.91
4385.7	81.71	81.51	82.4	73.78	78.43	77.54	72.76	66.13	57.18	45.19	24.03	-12.48	-72.82
3949.3	85.01	84.71	84.4	74.45	79.74	79.95	76.31	69.84	61.70	51.37	33.68	3.56	-45.85
3680.0	87.21	86.91	85.6	74.45	80.26	81.30	78.52	72.26	64.90	55.77	40.35	14.42	-27.80
2615.2	89.41	88.91	86.7	73.95	79.78	82.49	80.67	75.24	68.59	59.97	46.14	23.16	-14.03
2333.6	90.61	89.91	86.8	72.88	78.98	82.35	81.69	76.92	71.00	63.57	50.91	30.07	-3.44
2121.3	91.21	90.51	86.9	71.93	77.84	82.01	82.21	78.13	72.45	65.20	53.42	34.21	3.47
1988.1	91.51	90.61	86.7	70.80	77.09	81.48	82.06	78.96	73.73	66.00	55.49	37.53	8.93
1831.2	91.91	90.91	86.8	70.01	76.71	81.28	81.45	79.59	75.06	64.32	57.74	46.74	13.80
1722.1	92.11	90.91	86.7	70.22	76.10	81.02	81.75	79.77	75.57	69.34	59.17	42.93	17.29
1655.1	91.91	90.61	86.2	69.65	75.33	80.06	81.16	79.63	75.43	69.80	59.95	44.30	19.66
1596.3	91.71	90.31	85.8	70.35	75.11	79.66	80.76	79.16	75.46	69.90	60.29	45.09	21.22
1557.9	91.41	90.51	85.6	69.64	74.33	79.50	80.58	79.07	75.04	70.63	61.20	46.34	23.63
1523.1	91.11	90.11	85.4	69.20	74.56	79.01	80.20	78.93	75.75	70.63	61.32	46.68	23.77
1565.7	91.51	90.11	85.2	69.12	74.07	78.58	80.11	78.52	75.49	70.86	61.62	47.12	24.43
1508.0	91.31	89.81	84.7	67.98	73.13	77.70	79.50	78.31	75.53	70.77	61.56	47.10	24.49
1565.7	91.41	89.81	84.3	66.95	72.44	77.17	79.19	77.86	75.68	71.33	62.10	47.59	24.90
1523.1	91.11	89.71	84.0	66.73	72.49	76.84	78.58	77.71	75.41	71.43	62.12	47.49	24.57
1557.9	90.91	89.71	83.7	65.95	71.72	76.81	78.34	77.13	75.44	70.90	61.47	46.88	23.30
1596.3	90.61	89.11	83.4	64.91	70.46	75.74	78.19	76.99	75.17	70.43	61.23	46.03	22.16
1655.1	89.81	88.31	82.7	64.45	69.13	75.11	77.39	76.56	74.69	70.06	60.21	46.56	19.92

RUN NUMBER	= 459.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 973.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= 1.404
PRIMARY VELOCITY (FT/SEC)	= 1601.314
MASS FLOW RATIO	= .524
PRIMARY MASS FLOW (LB/SEC)	= .255
THRUST (LBS)	= 15.375
ENVIRONMENTAL TEMPERATURE (R)	= 532.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.500

ACUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.12097E+00	137.1	THRUST	POWER LEVEL (DB)
500	1.20825E-02	110.8	10000	165.2
1000	8.54820E-02	119.3	20000	168.2
2000	5.05980E-01	127.0	40000	171.2
4000	1.11701E+00	131.5	80000	174.3
8000	1.80099E+00	132.6		
16000	9.09409E-01	129.6		
31500	3.90012E-01	125.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.6	99.2	104.9	107.0	108.1	100.9	94.4	112.3
20.0	90.3	98.7	105.5	108.5	109.0	104.1	96.6	113.5
25.0	89.2	97.5	105.5	108.6	108.5	103.5	96.7	113.3
30.0	86.0	96.4	104.9	109.0	109.1	105.5	99.0	113.8
35.0	86.0	94.7	103.5	108.7	109.0	104.7	99.1	113.4
40.0	83.3	92.6	101.7	108.3	109.6	105.5	100.1	113.5
45.0	81.6	90.6	99.2	105.2	107.2	104.4	99.9	111.2
50.0	77.6	88.2	96.5	102.2	104.3	103.0	97.7	108.9
55.0	77.8	86.1	94.2	99.4	102.1	101.9	99.6	107.2
60.0	77.4	84.9	92.1	96.9	99.8	100.1	94.1	105.2
65.0	76.6	84.0	91.0	95.6	98.5	98.2	96.2	103.7
70.0	76.1	84.0	90.3	94.7	97.0	97.0	95.6	102.5
75.0	76.1	82.9	89.4	93.6	96.0	96.4	95.1	101.8
80.0	76.1	82.1	88.2	92.5	94.5	94.8	94.7	100.6
85.0	74.5	82.1	88.1	91.7	94.3	94.5	93.5	100.0
90.0	75.1	81.9	87.8	91.6	94.3	93.5	93.0	99.6
95.0	74.5	81.0	87.0	90.9	93.4	93.5	92.5	99.1
100.0	73.9	80.7	86.7	90.3	92.2	93.0	92.0	98.4
105.0	73.3	80.4	86.5	90.0	92.2	92.0	91.5	97.9
110.0	72.6	79.1	85.6	89.4	91.8	92.0	92.2	97.8
115.0	72.6	78.3	85.2	89.1	91.1	91.5	90.5	97.0

MODEL THRUST = 15.375 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 13.9	BAND 27.7	SOUND 55.5	PRESSURE 110.9	LEVELS 221.8	443.6	875.4	1746.8	3485.8	6931.7	13863.4
9795.0	89.61	88.97	89.1	66.99	75.67	81.23	83.22	83.70	74.86	84.36	51.90	29.17	-12.12
4385.7	94.01	93.01	91.9	69.13	77.54	84.33	87.21	87.24	81.07	70.53	60.37	42.44	10.46
2949.3	96.01	94.71	93.6	69.87	78.21	86.14	89.18	88.69	82.70	73.45	64.66	49.58	23.12
2000.0	99.71	97.11	95.5	69.01	78.51	86.98	90.98	90.86	86.37	77.84	69.94	56.72	33.90
2615.2	99.91	98.01	96.3	69.32	78.01	86.80	91.95	91.97	86.90	77.51	72.25	60.34	40.06
2333.6	101.51	99.41	97.4	67.60	76.90	86.06	92.53	93.62	88.88	81.85	75.04	64.09	45.67
2121.3	101.61	98.11	95.9	68.85	75.75	84.33	90.27	92.01	88.64	82.71	76.24	66.02	49.00
1958.1	99.71	96.71	94.3	65.49	74.01	82.31	87.99	89.90	88.01	83.43	77.23	67.56	51.02
1831.2	99.31	96.01	93.2	64.30	72.59	80.65	85.75	88.28	87.59	83.99	78.00	68.76	53.67
1732.1	98.11	94.51	91.7	64.38	71.87	78.46	83.76	86.45	86.26	83.11	77.28	68.38	53.94
1655.1	96.91	93.31	90.6	63.90	71.29	78.29	82.44	85.62	84.07	81.73	76.03	67.39	53.46
1596.3	96.11	92.51	89.8	63.75	71.60	77.94	82.24	84.38	83.95	81.45	75.84	67.41	53.86
1552.9	95.91	92.11	89.3	63.98	70.74	77.26	81.39	83.70	83.63	81.24	75.67	67.38	54.12
1523.1	95.01	90.91	88.3	64.15	70.17	76.24	80.44	82.34	82.23	81.03	75.94	67.36	54.29
1505.7	94.51	90.51	87.8	62.67	70.27	76.19	79.82	82.22	82.01	79.92	74.46	66.34	53.39
1500.0	93.91	89.91	87.5	63.26	70.05	75.93	79.76	82.25	81.01	79.51	74.06	65.95	53.04
1505.7	93.51	89.51	86.9	62.67	69.19	75.11	78.97	81.35	80.97	78.99	73.54	65.41	52.46
1523.1	92.81	88.81	86.1	61.47	68.79	74.18	78.26	80.01	80.39	78.37	72.88	64.70	51.63
1552.9	91.91	87.91	85.4	61.16	68.72	74.14	77.76	79.44	79.17	77.63	72.10	63.81	50.55
1566.3	91.71	87.71	85.1	60.72	68.74	73.18	76.94	78.91	78.91	77.40	72.40	63.87	50.42
1655.1	90.31	86.51	83.9	59.91	65.67	72.47	76.40	78.15	79.12	75.94	70.24	61.61	47.67

RUN NUMBER	460.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	918.000
SECONDARY TEMPERATURE (R)	543.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	1.000
VELOCITY RATIO	.694
PRIMARY VELOCITY (FT/SEC)	1596.974
MASS FLOW RATIO	.470
PRIMARY MASS FLOW (LB/SEC)	.263
THRUST (LBS)	21.342
ENVIRONMENTAL TEMPERATURE (R)	532.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	.071
INSTRUMENTATION NOISE FLOOR (DB)	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	3.46993E+00	137.4	10000	164.1
500	2.42365E-02	113.8	20000	167.1
1000	1.85414E-01	122.7	40000	170.1
2000	8.86129E-01	129.5	80000	173.1
4000	1.63568E+00	132.1		
8000	1.59403E+00	132.0		
16000	8.00798E-01	129.0		
31500	3.39656E-01	125.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.6	102.9	107.9	107.6	103.8	95.8	91.1	112.3
20.0	93.3	102.5	108.4	109.0	107.1	100.2	93.1	113.6
25.0	92.6	101.7	108.4	109.3	107.8	101.3	94.9	113.9
30.0	90.5	99.7	107.3	110.0	108.3	102.7	96.5	114.1
35.0	88.3	98.3	106.0	109.6	109.0	104.3	97.8	114.0
40.0	86.3	95.7	103.4	108.1	109.0	105.5	100.7	113.4
45.0	83.7	93.2	101.4	105.9	107.0	103.7	100.1	111.4
50.0	81.9	90.1	98.1	102.7	104.8	103.7	100.0	109.5
55.0	80.2	88.4	95.8	100.1	102.0	101.1	99.5	107.8
60.0	79.3	86.8	94.1	98.2	100.1	99.6	97.2	105.4
65.0	79.3	86.1	92.6	96.4	98.7	98.4	96.2	104.0
70.0	77.8	85.5	91.9	95.5	97.2	96.7	94.9	102.7
75.0	76.2	84.8	90.9	94.4	96.2	95.9	94.5	101.8
80.0	76.2	84.4	90.0	93.1	95.1	95.0	93.5	100.8
85.0	77.4	84.2	89.8	93.1	94.5	94.3	93.0	100.3
90.0	77.0	83.5	89.4	92.7	94.6	94.4	92.5	100.2
95.0	76.6	82.9	88.9	91.8	93.3	94.4	92.0	99.6
100.0	75.6	82.1	87.8	90.8	92.6	94.3	91.5	99.0
105.0	75.6	81.3	87.1	90.1	91.3	94.1	91.1	98.4
110.0	74.5	81.0	86.6	90.1	91.6	94.0	90.5	98.3
115.0	74.5	79.8	86.1	89.5	91.0	93.9	90.0	97.9

MODEL THRUST = 21.342 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 16.3	BAND 32.7	SOUND 65.3	PRESSURE 130.7	LEVELS 261.3	522.7	1029.0	2058.0	4083.3	8166.7	16333.4
9795.6	88.21	85.71	88.9	89.59	77.88	82.80	82.23	77.73	67.68	58.01	43.62	17.37	-29.70
4389.7	91.61	90.91	90.7	70.71	79.87	85.72	86.14	83.68	75.21	64.45	52.82	32.24	-4.11
2549.3	94.51	93.61	92.8	71.86	80.97	87.59	88.40	86.37	78.66	69.21	59.23	41.99	12.00
2000.0	96.81	95.61	94.4	71.20	80.39	87.99	90.55	88.45	81.77	73.05	64.15	49.11	23.30
2615.2	98.81	97.31	95.5	70.19	80.23	87.88	91.40	90.42	84.80	76.07	67.92	54.44	31.55
2335.6	100.21	98.31	95.8	69.18	78.60	86.28	90.89	91.45	87.18	80.32	72.73	60.38	39.63
2121.3	99.61	97.31	94.7	67.41	76.46	85.12	89.49	90.39	86.34	80.90	73.73	62.22	43.09
1958.1	98.81	96.11	93.4	66.32	74.52	82.48	87.00	88.83	87.10	81.67	74.82	63.97	46.08
1831.2	97.21	94.31	91.5	65.27	73.42	80.78	85.01	86.65	85.12	80.96	74.36	64.02	47.09
1737.1	96.31	93.21	90.3	64.81	72.27	79.56	83.50	85.30	84.19	80.25	73.85	63.90	47.73
1655.1	95.61	92.31	89.4	63.20	72.04	78.46	82.15	84.26	83.41	79.85	73.59	63.96	46.37
1596.3	94.61	91.21	88.4	64.06	71.69	78.06	81.58	83.11	82.02	78.87	72.73	63.32	46.19
1557.4	94.21	90.71	87.8	64.89	71.28	77.31	80.77	82.39	81.55	78.78	72.73	63.50	46.89
1523.1	93.41	89.81	86.9	64.86	70.99	76.60	79.47	81.41	80.78	77.96	71.96	62.85	46.27
1505.7	93.01	89.41	86.6	64.17	70.49	76.46	79.77	80.95	80.17	77.63	71.67	62.63	46.18
1500.0	92.91	89.41	86.5	63.78	70.29	76.13	79.34	81.06	80.37	77.19	71.24	62.73	47.82
1505.7	92.41	88.91	85.8	63.30	69.54	75.59	78.44	79.78	80.33	76.65	70.69	61.65	47.20
1523.1	91.41	88.31	85.1	62.73	68.75	74.37	77.12	78.98	80.06	74.99	70.00	60.89	46.31
1547.4	91.11	87.71	84.3	62.06	67.78	73.58	76.17	77.44	79.70	74.36	69.30	60.88	45.27
1596.3	90.61	87.31	83.9	60.74	67.25	73.81	76.18	77.50	79.35	74.46	68.32	58.92	43.78
1659.1	89.81	86.61	83.1	60.42	65.49	72.00	75.70	76.94	78.92	73.54	67.33	57.69	42.11

RUN NUMBER	461.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (M)	923.000
SECONDARY TEMPERATURE (M)	540.000
PRIMARY PRESSURE (M)	2.500
AREA RATIO	2.007
VELOCITY RATIO	.401
PRIMARY VELOCITY (FT/SEC)	1601.318
MASS FLOW RATIO	.997
PRIMARY MASS FLOW (LB/SEC)	.265
THRUST (LBS)	18.447
ENVIRONMENTAL TEMPERATURE (R)	532.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.112
INSTRUMENTATION NOISE FLOOR (DB)	70.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	1.00180E+01	140.0	THRUST 10000 167.3 20000 170.4 40000 173.4 80000 176.4
500	1.28847E-02	111.1	
1000	1.04626E-01	120.2	
2000	7.06933E-01	128.5	
4000	2.35569E+00	133.7	
8000	3.56697E+00	135.5	
16000	2.21779E+00	133.5	
31500	1.05338E+00	130.2	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	91.8	100.3	106.8	110.1	111.6	108.7	104.1	116.1
20.0	90.7	100.0	107.8	111.3	112.9	110.2	105.7	117.4
25.0	89.0	99.1	107.3	111.7	113.2	110.2	106.3	117.5
30.0	87.2	96.9	106.3	111.9	113.6	111.1	107.0	117.9
35.0	85.4	95.3	104.5	110.7	111.6	108.5	105.2	116.0
40.0	83.9	93.1	102.7	109.5	111.1	108.6	104.8	115.3
45.0	81.8	90.8	100.1	106.8	109.6	107.8	104.7	113.8
50.0	79.1	88.7	98.1	104.3	107.2	105.8	102.6	111.5
55.0	76.5	86.8	94.9	101.0	104.1	103.8	101.9	109.1
60.0	77.9	85.3	93.0	98.5	101.7	101.6	100.1	106.9
65.0	76.6	84.1	91.4	96.9	99.8	100.1	98.5	105.2
70.0	76.6	84.1	90.8	95.5	98.3	99.1	98.4	104.3
75.0	76.6	83.1	90.1	94.6	97.2	97.8	97.1	103.1
80.0	75.8	82.7	89.4	93.8	96.4	96.6	95.5	102.0
85.0	75.0	82.3	89.4	93.4	96.0	96.2	95.6	101.6
90.0	75.0	81.9	88.7	92.4	94.4	95.7	94.0	100.7
95.0	75.0	81.5	88.1	92.2	94.7	95.7	93.5	100.6
100.0	74.1	81.1	86.4	90.6	93.0	95.0	92.9	99.8
105.0	73.0	80.1	86.3	90.1	92.4	94.9	91.9	99.0
110.0	71.0	79.0	85.7	88.0	91.3	93.4	91.5	98.1
115.0	71.4	78.4	85.4	89.4	90.6	93.7	91.1	97.8

MODEL THRUST = 18.447 FULL SCALE THRUST = 20000.000

L.	PNDH.	QASPL	OCTAVE 15.2	BAND 36.4	SOUND 66.7	PRESSURE 121.1	LEVELS 243.0	485.9	956.7	1913.3	3796.2	7592.5	15184.9
2995.0	93.81	92.01	90.0	87.41	79.97	82.36	89.44	88.29	81.57	72.43	59.93	34.30	-10.13
4385.7	98.01	96.81	94.5	88.76	78.04	85.76	84.18	90.23	86.18	78.25	67.31	47.94	-43.30
2549.7	100.61	99.11	96.7	88.07	78.96	87.12	91.41	92.54	88.42	81.72	72.29	56.05	-18.94
3000.0	102.91	101.01	98.4	88.61	78.28	87.61	93.12	94.43	91.04	84.60	76.16	61.97	-37.52
2615.7	102.51	100.41	98.0	87.91	77.86	87.07	93.10	93.77	89.77	84.46	76.72	63.96	-42.27
2335.6	103.21	100.41	98.3	87.46	76.44	85.73	92.93	94.28	91.03	85.43	76.21	66.50	-46.82
2121.7	103.91	100.21	97.6	86.21	75.12	84.41	91.38	93.64	91.15	86.44	79.59	68.68	-50.51
1958.1	101.01	98.71	96.0	84.14	73.81	83.11	89.25	91.91	89.89	85.19	78.65	68.34	-51.34
1831.7	100.41	97.11	94.1	84.16	72.50	80.49	86.55	89.42	88.55	85.24	78.92	69.09	-53.00
1732.1	98.94	95.41	92.5	84.05	71.45	79.12	84.51	87.54	86.92	84.03	77.89	68.43	-53.04
1655.1	97.81	94.21	91.2	83.10	70.44	77.06	83.14	86.10	85.79	82.92	76.92	67.74	-52.91
1596.1	97.51	94.11	90.6	83.42	70.45	77.63	82.30	84.93	85.20	81.21	77.32	68.36	-53.95
1552.7	96.61	92.71	89.7	83.66	70.17	77.17	81.58	84.07	84.14	82.23	76.42	67.62	-53.52
1523.1	95.51	91.71	88.9	83.07	69.97	76.59	81.00	83.35	83.09	80.81	75.05	66.36	-52.48
1505.7	95.21	91.41	88.6	82.34	69.68	76.69	80.65	83.08	82.78	80.50	74.78	66.16	-52.39
1500.6	94.51	90.71	87.6	82.17	69.31	76.11	79.69	81.51	82.37	79.47	73.75	65.15	-51.43
1505.7	94.21	90.41	87.4	82.14	69.46	75.41	79.52	81.62	82.34	78.92	73.19	64.57	-50.81
1523.1	93.51	90.01	86.6	81.12	69.11	74.09	77.81	79.47	82.34	78.26	72.50	63.82	-49.63
1552.7	92.51	88.91	85.6	80.13	67.15	73.31	77.14	79.23	81.22	77.04	71.26	62.47	-48.37
1596.1	91.21	87.51	84.4	79.13	65.45	72.16	76.73	77.99	79.47	76.36	70.47	61.51	-47.10
1655.1	90.61	87.11	83.8	78.42	64.44	71.04	75.87	76.87	79.47	76.43	69.53	60.35	-45.52

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 462.00 (826.00)
PRIMARY TEMPERATURE (IR)	= 4.100
SECONDARY TEMPERATURE (IR)	= 917.000
PRIMARY PRESSURE RATIO	= 535.000
AREA RATIO	= 2.500
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .649
MASS FLOW RATIO	= 1596.104
PRIMARY MASS FLOW (LB/SEC)	= 1.094
THRUST (LBS)	= .262
ENVIRONMENTAL TEMPERATURE (IR)	= 22.183
ENVIRONMENTAL PRESSURE (IN.HG)	= 533.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.800
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 70.000
INSTRUMENTATION NOISE FLOOR (DB)	= .126
	= 71.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.61940E+01	142.1	THRUST	POWER LEVEL(DB)
500	2.95879E-02	114.7	10000	168.6
1000	2.31097E-01	123.6	20000	171.6
2000	1.37245E+00	131.7	40000	174.7
4000	3.98275E+00	136.0	50000	177.7
8000	5.67728E+00	137.5		
16000	3.39913E+00	135.3		
31500	1.50171E+00	131.8		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.9	103.5	108.8	110.7	111.6	109.0	104.0	116.7
20.0	94.1	103.4	109.8	111.8	113.5	111.6	106.4	118.3
25.0	93.0	102.1	110.1	113.1	114.3	111.1	106.2	118.8
30.0	90.5	100.7	109.1	113.8	115.1	112.4	108.3	119.5
35.0	89.6	99.2	108.2	114.1	115.0	111.5	107.7	119.3
40.0	87.4	97.0	106.1	112.7	114.1	111.0	106.8	118.2
45.0	84.6	94.5	103.4	109.6	112.0	109.6	105.7	116.0
50.0	83.5	91.5	100.4	106.3	109.1	108.0	104.7	113.6
55.0	82.0	90.1	98.1	103.4	106.4	106.1	103.7	111.4
60.0	81.1	88.3	95.8	101.4	104.1	105.6	103.3	109.9
65.0	80.6	87.6	95.1	100.1	102.4	101.9	100.4	107.6
70.0	80.1	87.4	94.2	98.4	100.8	100.7	99.3	106.3
75.0	80.1	87.1	93.6	98.1	100.2	99.8	98.5	105.6
80.0	79.5	86.0	92.9	97.3	98.9	99.2	97.5	104.7
85.0	78.9	86.0	92.5	96.5	98.1	98.1	96.5	103.9
90.0	78.9	85.5	92.2	95.8	97.5	97.5	95.5	103.1
95.0	78.9	84.8	91.5	94.8	96.3	97.0	95.0	102.4
100.0	78.3	84.8	90.8	94.3	95.8	96.5	94.5	101.9
105.0	77.6	83.4	90.0	94.0	95.4	96.0	93.9	101.4
110.0	76.8	83.0	89.8	93.8	95.2	95.5	93.6	101.0
115.0	76.8	81.6	88.6	93.1	95.0	95.5	93.0	100.7

MODEL THRUST = 22.183

FULL SCALE THRUST = 20000.000

L.	PNDB	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	
			16.7	33.3	66.6	133.2	266.4	532.9
9795.0	93.11	92.87	90.4	89.74	76.33	83.52	85.14	85.30
4385.7	98.21	97.11	94.6	71.33	80.60	87.02	88.81	89.87
3549.3	101.01	99.77	97.1	72.14	81.72	89.17	91.98	92.68
3000.0	103.81	102.11	99.3	71.06	81.25	89.44	94.18	95.10
2615.2	105.01	103.11	100.4	71.39	80.93	89.88	95.68	96.25
2333.6	105.21	103.11	100.3	70.12	79.75	88.78	95.24	96.39
2121.3	104.77	102.01	99.0	68.21	78.03	86.04	93.07	92.61
1958.1	102.91	100.21	97.2	67.88	75.89	84.67	90.47	92.61
1831.2	101.81	98.77	95.6	66.88	74.98	82.92	88.15	90.94
1732.1	101.31	98.01	94.5	66.45	73.66	82.09	86.59	89.12
1655.1	99.21	95.81	92.8	66.35	73.36	80.83	85.75	87.77
1596.3	94.31	94.91	91.7	66.14	73.43	80.18	84.39	86.54
1552.9	97.01	94.41	91.4	66.38	73.42	79.39	84.26	86.14
1523.1	97.31	93.81	90.6	65.98	72.50	77.35	83.02	85.07
1505.7	96.51	93.11	89.9	65.48	72.40	76.00	82.93	84.36
1500.0	95.71	92.31	89.2	65.52	72.03	76.72	82.24	83.77
1505.7	95.01	91.61	88.4	65.44	71.36	78.01	81.31	82.55
1523.1	94.41	91.01	87.8	64.74	71.26	77.19	80.53	82.01
1552.9	93.71	90.31	87.1	63.88	70.23	76.23	80.22	81.38
1596.3	92.91	89.61	86.5	62.88	68.99	75.78	79.77	80.64
1655.1	92.21	89.01	85.8	62.57	67.34	74.34	78.76	80.44

RUN NUMBER	463.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	921.000
SECONDARY TEMPERATURE (R)	533.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	4.856
VELOCITY RATIO	.399
PRIMARY VELOCITY (FT/SEC)	1549.582
MASS FLOW RATIO	2.677
PRIMARY MASS FLOW (LB/SEC)	.263
THRUST (LBS)	27.037
ENVIRONMENTAL TEMPERATURE (R)	533.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.045
INSTRUMENTATION NOISE FLOOR (DB)	62.585

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	2.6948E+00	134.3	THRUST POWER LEVEL (DB)
500	1.7861E+02	112.5	10000 160.0
1000	1.08897E-01	120.4	20000 163.0
2000	4.15843E-01	126.2	40000 166.0
4000	7.00359E-01	128.5	80000 169.0
8000	7.15109E-01	128.5	
16000	4.76291E-01	126.8	
31500	2.60304E-01	124.2	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1030	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.9	99.8	102.8	100.4	94.4	92.7	92.1	106.8
20.0	91.8	99.6	103.7	101.7	95.7	93.1	93.2	107.6
25.0	90.8	98.8	104.0	103.4	98.6	94.1	94.2	108.3
30.0	89.2	97.4	104.0	104.6	101.0	95.6	94.3	109.0
35.0	86.9	95.9	102.7	105.6	103.6	98.4	94.7	109.6
40.0	84.8	93.7	101.1	105.3	105.4	101.8	97.0	110.2
45.0	82.7	91.5	99.1	103.6	104.8	101.7	98.0	109.3
50.0	81.7	89.4	96.7	101.3	103.1	101.6	98.0	107.8
55.0	79.7	87.6	94.4	98.6	100.8	100.3	97.4	105.9
60.0	79.0	86.6	92.9	96.7	99.3	99.6	97.8	104.9
65.0	78.6	85.6	91.8	95.6	97.9	98.3	96.3	103.6
70.0	78.4	84.7	91.0	94.4	96.7	96.9	95.8	102.4
75.0	77.9	84.2	90.2	93.6	96.0	96.0	94.5	101.6
80.0	77.1	83.8	89.5	92.8	94.8	95.5	93.5	100.7
85.0	76.3	83.4	89.2	92.2	94.3	94.5	92.5	100.0
90.0	76.3	82.3	88.2	91.5	94.0	94.0	92.0	99.5
95.0	76.5	81.7	87.3	90.4	92.7	93.0	91.0	98.4
100.0	75.6	81.3	86.6	89.3	92.6	92.5	90.5	98.1
105.0	75.0	81.1	86.2	89.6	91.9	92.0	90.0	97.5
110.0	74.2	80.2	85.5	88.8	90.9	91.5	89.0	96.7
115.0	74.6	79.1	84.9	88.4	90.7	91.0	88.5	96.3

MODEL THRUST = 27.037 FULL SCALE THRUST = 20000.000

L.	PHOR.	OASPL	10.4	OCTAVE 36.8	BAND 73.5	SOUND 147.1	PRESSURE 294.1	LEVELS 588.3	1150.2	2310.4	4596.0	9191.9	18383.8
8795.6	79.01 (78.3)	80.3	66.88	71.86	76.89	73.43	67.07	63.01	55.65	48.66	41.59	40.61	126.21
4385.7	83.61 (82.6)	81.6	69.02	74.00	80.04	77.87	71.31	66.65	62.51	49.67	26.95	-12.83	-77.27
3549.3	87.41 (86.1)	85.2	69.06	77.07	82.12	81.42	76.02	70.11	66.65	55.69	36.73	3.36	-84.76
3000.0	90.21 (88.8)	88.1	68.85	77.11	83.62	84.10	74.99	73.41	69.13	59.40	42.91	14.95	-30.28
2615.2	93.21 (91.8)	90.1	67.82	76.79	83.52	86.33	83.90	77.63	71.32	62.45	47.69	22.76	-16.08
2333.6	96.01 (94.3)	91.6	66.74	75.61	82.97	86.99	81.81	82.15	75.13	66.90	53.40	30.83	-4.06
2121.3	98.51 (96.5)	91.4	65.24	74.19	81.71	85.17	87.08	83.09	77.22	69.46	56.92	36.13	3.41
1958.1	99.21 (97.0)	90.5	65.07	72.85	80.08	84.53	86.09	83.78	78.26	70.87	59.06	39.64	9.21
1831.2	95.11 (92.4)	89.2	61.67	71.58	78.35	82.67	84.43	83.12	78.46	71.35	60.11	41.76	13.10
1732.1	95.11 (92.0)	88.6	61.53	71.06	77.30	81.15	83.34	81.00	76.44	72.56	61.77	44.25	16.98
1655.1	93.21 (91.1)	87.7	63.47	70.33	76.61	80.36	82.19	82.08	78.45	71.74	61.29	44.42	19.21
1596.3	91.41 (89.2)	86.9	63.56	69.03	76.11	79.44	81.51	81.06	74.62	71.44	61.26	44.87	19.61
1552.9	92.91 (89.6)	86.4	61.71	68.50	75.58	78.73	81.09	80.41	77.19	70.91	60.93	44.90	20.15
1523.1	92.41 (89.1)	85.7	62.70	69.35	75.55	78.30	83.01	80.11	76.61	70.22	60.37	44.59	23.25
1505.7	91.61 (88.4)	85.1	61.96	68.34	74.44	77.84	80.66	79.24	75.74	69.16	59.50	43.96	19.87
1500.0	91.11 (87.8)	84.6	61.08	68.03	73.95	77.14	79.35	78.75	75.30	68.94	59.10	43.61	19.60
1505.7	90.01 (86.7)	83.5	62.24	67.35	72.44	76.10	78.06	77.72	74.21	67.84	58.67	42.44	18.34
1523.1	88.41 (85.2)	81.1	61.23	66.40	72.11	75.17	77.84	77.10	73.61	67.20	57.35	41.57	17.11
1552.9	87.71 (84.3)	80.3	62.39	65.66	71.23	74.23	77.30	76.44	72.84	65.41	56.43	40.40	16.14
1596.3	87.01 (83.8)	81.2	62.43	65.16	70.89	73.83	76.30	75.68	71.60	64.02	54.84	39.45	15.14
1655.1	86.71 (83.0)	80.5	64.48	63.37	69.74	73.18	75.23	74.40	70.71	64.00	53.46	38.60	14.41

RUN NUMBER	464.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	920.000
SECONDARY TEMPERATURE (R)	538.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	4.856
VELOCITY RATIO	0.650
PRIMARY VELOCITY (FT/SEC)	1598.713
MASS FLOW RATIO	4.963
PRIMARY MASS FLOW (LB/SEC)	245
THRUST (LBS)	55.592
ENVIRONMENTAL TEMPERATURE (R)	533.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.50
INSTRUMENTATION NOISE FLOOR (DB)	63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST
OVERALL	5.38803E+00	137.3	THRUST 10000 159.9 20000 162.9 40000 165.9 80000 168.9
500	8.05183E-02	119.1	
1000	4.49585E-01	126.5	
2000	1.20424E+00	130.8	
4000	1.46460E+00	131.7	
8000	1.09288E+00	130.4	
16000	6.84129E-01	128.4	
31500	4.12081E-01	126.1	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	99.1	105.0	105.6	102.1	96.3	94.3	90.4	110.0
20.0	98.8	105.8	106.9	103.0	97.4	94.3	91.0	110.9
25.0	96.7	105.2	107.4	104.4	98.7	94.9	92.3	111.2
30.0	95.3	103.2	107.6	105.2	99.7	95.8	93.1	111.1
35.0	93.8	102.2	107.1	106.6	101.5	97.3	94.5	111.4
40.0	91.6	99.7	105.8	107.0	103.5	98.3	95.0	111.2
45.0	89.5	97.5	104.0	106.5	104.6	100.4	96.4	110.8
50.0	87.6	95.6	102.3	105.0	104.3	101.1	97.2	109.9
55.0	86.6	94.4	100.7	104.0	104.2	101.6	98.0	109.4
60.0	86.0	93.4	99.5	102.8	102.9	101.1	97.7	108.4
65.0	85.2	92.4	98.6	101.5	101.6	100.5	98.1	107.5
70.0	85.6	92.2	98.5	100.8	100.8	99.6	97.3	106.8
75.0	85.0	91.7	97.4	100.4	101.1	99.9	98.0	106.7
80.0	84.5	91.3	96.7	99.4	100.3	99.3	98.1	106.1
85.0	83.2	90.1	95.8	98.2	98.6	98.0	97.5	104.9
90.0	83.5	89.2	94.7	97.6	98.2	97.5	97.0	104.3
95.0	82.1	88.9	94.3	97.5	98.0	97.5	96.5	104.1
100.0	81.6	88.0	93.7	96.8	97.8	97.0	96.0	103.6
105.0	81.4	87.7	93.1	96.1	97.0	97.0	95.5	103.1
110.0	80.4	86.4	92.6	95.0	96.8	96.5	95.5	102.8
115.0	80.2	85.9	92.1	95.7	96.7	96.5	95.0	102.6

MODEL THRUST = 55.592 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE 25.4	BAND 52.7	SOUND 105.4	PRESSURE 210.9	LEVELS 421.8	843.6	1687.2	3374.5	6749.0	13498.0	26996.0
8795.5	79.31	79.11	80.4	89.95	75.75	70.18	72.22	68.91	58.46	46.33	24.29	-15.04	-42.33
4385.7	83.61	83.31	83.9	72.05	74.01	80.01	75.74	68.91	62.94	52.93	35.51	5.02	-44.63
3949.1	86.81	86.31	86.0	71.84	80.27	82.14	79.05	72.45	66.24	58.26	43.00	18.35	-24.02
3000.0	89.11	88.41	87.3	71.86	79.75	84.05	81.33	75.09	69.23	61.98	49.13	27.32	-8.96
2615.2	91.71	90.91	88.8	71.54	79.30	84.10	84.06	78.25	72.24	65.91	53.91	34.52	2.51
2333.4	93.21	92.21	89.5	70.31	78.41	84.64	85.47	81.33	74.57	67.69	57.03	39.60	10.51
2121.3	94.61	93.21	89.8	68.03	77.02	83.55	85.21	83.18	77.14	70.51	60.54	44.74	17.71
1954.1	94.91	93.51	89.5	67.90	75.86	82.49	85.02	83.86	79.28	72.42	62.04	47.71	22.99
1831.2	95.51	93.91	89.5	67.63	75.21	81.44	84.64	84.33	80.53	74.15	65.13	50.65	27.34
1732.1	95.21	93.51	88.9	67.39	74.77	80.89	83.94	83.51	80.84	74.56	65.87	52.01	29.80
1655.1	94.91	93.01	88.7	66.99	74.12	80.25	83.01	82.73	80.51	75.57	67.13	53.76	33.40
1596.3	94.51	92.61	88.0	67.65	74.37	80.44	82.47	82.19	79.07	75.23	68.08	53.98	33.27
1552.9	94.11	93.31	88.1	67.30	73.99	79.44	82.58	82.77	80.57	76.25	68.15	55.42	35.10
1523.1	94.91	92.71	87.6	66.76	73.72	79.08	81.69	82.16	80.16	74.63	68.03	56.08	36.18
1505.7	94.11	91.91	86.5	65.81	72.61	78.10	80.54	80.40	78.00	74.22	68.27	55.83	36.13
1500.0	93.61	91.31	85.9	66.14	71.81	77.26	79.47	80.22	78.41	74.71	67.78	55.38	35.74
1505.7	93.21	90.91	85.7	64.69	71.45	76.24	79.44	80.01	78.47	75.10	67.24	54.80	35.10
1523.1	92.51	90.31	85.1	64.07	70.44	74.07	77.45	79.66	77.45	74.44	66.53	51.04	34.09
1582.9	91.41	89.61	84.4	63.71	69.44	74.29	78.73	78.71	77.45	74.81	65.71	52.84	32.75
1494.1	91.31	89.11	83.9	62.40	68.40	74.58	77.47	78.26	76.87	73.46	65.22	52.21	31.51
1665.1	90.41	88.31	83.2	61.97	67.59	73.76	77.23	77.94	76.49	72.49	64.06	50.48	29.32

RUN NUMBER	465.000
AXIAL POSITION OF PRIMARY WRY. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	923.000
SECONDARY TEMPERATURE (R)	535.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	9.788
VELOCITY RATIO	.399
PRIMARY VELOCITY (FT/SEC)	1601.318
MASS FLOW RATIO	5.175
PRIMARY MASS FLOW (LB/SEC)	.265
THRUST (LBS)	40.385
ENVIRONMENTAL TEMPERATURE (R)	525.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.009
INSTRUMENTATION NOISE FLOOR (DB)	60.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	9.13297E+00	139.5	THRUST POWER LEVEL (DB)
			10000 163.5
500	3.35687E-02	115.3	20000 166.6
1000	1.87688E-01	121.7	40000 169.6
2000	7.34008E-01	128.7	80000 172.6
4000	1.74249E+00	132.4	
8000	3.08990E+00	134.9	
16000	2.29560E+00	133.6	
31500	1.04970E+00	130.2	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.5	101.6	103.8	104.4	105.7	105.2	101.5	111.9
20.0	94.5	101.7	105.7	106.5	107.4	107.6	103.1	113.0
25.0	93.3	100.0	106.1	107.4	108.5	107.2	103.6	114.1
30.0	91.7	99.6	106.4	109.7	111.2	109.2	105.3	116.0
35.0	89.8	98.6	105.4	110.2	112.2	110.2	105.7	116.6
40.0	87.8	96.6	104.4	109.4	112.3	110.7	106.5	116.8
45.0	86.3	94.5	101.9	107.2	110.0	109.2	105.1	114.9
50.0	84.1	92.8	99.4	105.8	108.5	107.5	104.0	112.9
55.0	82.4	90.4	97.6	101.6	104.9	104.7	102.5	110.0
60.0	81.6	89.2	95.8	99.8	103.2	103.2	100.9	108.3
65.0	81.3	88.0	93.8	97.9	100.9	101.0	99.3	106.3
70.0	80.4	87.1	93.0	96.5	99.3	99.4	97.7	104.8
75.0	80.0	86.0	92.1	95.6	98.2	98.6	97.8	104.1
80.0	79.5	85.8	91.5	94.8	97.2	97.0	96.5	102.9
85.0	79.9	85.3	90.8	93.7	96.1	96.0	95.0	101.8
90.0	79.6	84.9	90.4	92.8	94.8	95.0	94.0	100.8
95.0	79.4	84.1	89.9	92.2	93.8	94.0	93.1	99.9
100.0	78.1	83.9	89.0	91.3	93.0	93.0	92.5	99.1
105.0	77.8	83.6	88.7	90.9	92.5	92.5	91.5	98.6
110.0	76.5	82.1	87.8	90.3	91.8	91.6	90.6	97.8
115.0	76.3	81.8	87.6	89.7	90.9	91.0	90.6	97.3

MODEL THRUST 40.385 FULL SCALE THRUST 20000.000

ANGLE (DEG)	500	OCTAVE BAND	SOUND PRESSURE LEVELS	OVERALL				
		2000	4000	8000	16000	31500	ALL	
15.0	95.5	101.6	103.8	104.4	105.7	105.2	101.5	111.9
20.0	94.5	101.7	105.7	106.5	107.4	107.6	103.1	113.0
25.0	93.3	100.0	106.1	107.4	108.5	107.2	103.6	114.1
30.0	91.7	99.6	106.4	109.7	111.2	109.2	105.3	116.0
35.0	89.8	98.6	105.4	110.2	112.2	110.2	105.7	116.6
40.0	87.8	96.6	104.4	109.4	112.3	110.7	106.5	116.8
45.0	86.3	94.5	101.9	107.2	110.0	109.2	105.1	114.9
50.0	84.1	92.8	99.4	105.8	108.5	107.5	104.0	112.9
55.0	82.4	90.4	97.6	101.6	104.9	104.7	102.5	110.0
60.0	81.6	89.2	95.8	99.8	103.2	103.2	100.9	108.3
65.0	81.3	88.0	93.8	97.9	100.9	101.0	99.3	106.3
70.0	80.4	87.1	93.0	96.5	99.3	99.4	97.7	104.8
75.0	80.0	86.0	92.1	95.6	98.2	98.6	97.8	104.1
80.0	79.5	85.8	91.5	94.8	97.2	97.0	96.5	102.9
85.0	79.9	85.3	90.8	93.7	96.1	96.0	95.0	101.8
90.0	79.6	84.9	90.4	92.8	94.8	95.0	94.0	100.8
95.0	79.4	84.1	89.9	92.2	93.8	94.0	93.1	99.9
100.0	78.1	83.9	89.0	91.3	93.0	93.0	92.5	99.1
105.0	77.8	83.6	88.7	90.9	92.5	92.5	91.5	98.6
110.0	76.5	82.1	87.8	90.3	91.8	91.6	90.6	97.8
115.0	76.3	81.8	87.6	89.7	90.9	91.0	90.6	97.3

RUN NUMBER	466.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (°R)	923.000
SECONDARY TEMPERATURE (°R)	942.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	9.744
VELOCITY RATIO	.651
PRIMARY VELOCITY (FT/SEC)	1601.318
MASS FLOW RATIO	9.673
PRIMARY MASS FLOW (LB/SEC)	2.205
THRUST (LBS)	96.194
ENVIRONMENTAL TEMPERATURE (°R)	525.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.112
INSTRUMENTATION NOISE FLOOR (DB)	70.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	1.93901E+01	142.9	THRUST POWER LEVEL (DB)
			10000 163.0
500	2.46876E-01	123.9	20000 166.1
1000	1.06693E+00	130.3	40000 169.1
2000	2.68759E+00	134.3	60000 172.1
4000	4.53916E+00	136.6	
8000	5.64336E+00	137.5	
16000	3.55336E+00	135.5	
31500	1.65284E+00	132.2	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	104.6	108.4	108.4	100.5	107.4	104.6	99.5	114.4
20.0	105.8	109.5	110.1	110.0	110.2	107.3	102.9	116.9
25.0	102.1	109.2	111.0	111.1	111.2	108.4	103.2	117.6
30.0	100.3	107.3	111.1	111.7	112.0	109.6	105.1	118.0
35.0	97.4	105.3	110.7	112.9	112.6	109.3	105.1	118.1
40.0	95.6	103.7	109.1	112.9	113.4	110.5	106.1	118.3
45.0	93.5	101.2	108.0	111.9	113.4	110.5	105.5	117.8
50.0	92.4	99.3	106.6	110.3	112.1	110.0	105.5	116.8
55.0	90.5	97.9	104.8	108.0	109.8	108.3	104.6	114.7
60.0	90.3	96.8	103.4	105.5	108.3	107.1	104.0	113.4
65.0	90.3	96.1	101.4	104.4	106.1	105.3	103.1	111.5
70.0	90.4	95.1	100.7	103.6	104.6	103.4	101.4	110.1
75.0	89.6	94.6	99.5	102.4	103.4	102.2	100.4	109.1
80.0	89.1	94.6	99.4	101.9	102.5	101.7	100.0	108.6
85.0	88.0	93.7	98.8	101.0	101.5	100.8	100.0	107.7
90.0	87.7	92.9	98.1	100.2	101.2	100.5	100.2	107.4
95.0	87.7	93.1	97.5	99.7	100.6	100.7	100.0	107.1
100.0	87.0	92.4	96.8	98.0	100.3	101.0	100.4	107.0
105.0	86.4	92.0	96.7	98.0	100.0	100.9	99.7	106.7
110.0	86.1	91.5	95.7	97.7	100.2	101.0	98.4	106.4
115.0	86.3	90.8	95.7	98.3	103.6	101.8	100.5	107.6

MODEL THRUST = 98.194 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS
			36.7	69.4	138.7	277.4	554.8 1109.6 2104.0 4360.2 8680.8 17338.0 34676.0
0795.0	92.91 92.47	81.6	73.00	77.21	79.44	87.76	72.40 84.19 47.05 17.02 229.00 1710.77 3337.34
4385.0	89.41 89.21	80.4	74.49	80.29	80.73	80.00	78.27 71.47 57.04 34.02 1.73 63.81 154.34
3540.3	93.41 92.31	89.1	74.32	81.04	83.59	83.13	81.84 75.43 63.16 44.86 13.71 37.18 117.50
3000.0	95.41 94.91	90.4	74.81	81.47	84.10	85.28	84.42 79.23 69.43 52.44 24.70 17.71 81.48
2614.2	97.31 96.71	92.3	72.77	80.67	85.87	87.79	84.42 80.69 71.86 59.76 33.04 9.10 41.40
2333.6	94.01 94.31	93.3	71.44	79.47	85.14	86.42	84.43 83.24 74.05 60.97 30.48 4.05 45.40
2121.3	99.71 98.01	95.6	70.47	78.37	85.03	87.44	84.13 84.61 75.18 62.64 43.13 11.56 30.17
1928.1	94.61 94.61	93.1	70.26	77.16	84.13	87.82	84.95 84.94 76.34 64.00 46.37 14.00 26.14
1831.2	94.51 97.31	91.4	69.02	74.34	83.18	86.13	87.24 84.00 74.27 65.45 44.05 20.10 20.02
1732.1	97.01 96.01	90.9	69.21	75.71	82.22	84.15	84.22 83.45 76.71 65.03 44.00 21.17 14.20
1653.1	94.81 95.41	88.4	69.41	75.40	80.73	83.17	84.53 82.37 76.41 64.36 44.05 24.44 11.43
1544.3	95.71 94.31	84.5	73.07	74.78	80.70	81.40	83.16 80.44 76.27 65.14 44.73 24.23 10.38
1552.0	95.77 93.41	87.7	69.44	74.32	79.14	81.68	82.39 79.14 73.14 65.45 44.15 24.13 10.40
1523.1	95.81 93.51	87.3	69.21	74.62	79.30	81.64	81.70 79.48 74.02 65.24 44.17 24.66 10.45
1505.7	94.01 93.01	86.6	69.23	73.81	78.21	80.91	80.70 79.71 76.74 65.05 44.21 27.03 10.73
1500.0	94.81 92.01	86.2	67.46	71.34	78.16	80.10	82.51 74.44 74.04 65.48 44.40 27.39 10.24
1505.7	94.71 92.01	85.8	67.43	73.24	77.41	79.41	79.44 78.62 74.74 65.24 44.31 27.03 10.73
1523.1	94.71 92.01	85.4	67.10	72.66	74.11	74.74	75.62 74.71 74.21 65.43 44.44 27.05 10.74
1522.4	93.47 91.01	85.0	68.49	71.00	74.17	74.54	70.33 74.72 74.26 65.30 44.74 27.12 10.74
1506.1	93.41 91.71	84.8	67.70	71.12	73.70	74.14	74.45 74.73 74.11 64.41 44.77 27.24 11.10
1655.1	93.01 91.51	84.4	69.70	70.18	74.02	77.24	78.05 74.41 73.44 63.70 47.67 22.39 10.42

RUN NUMBER	467.000
AXIAL POSITION OF PRIMARY WRY. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (IN)	922.000
SECONDARY TEMPERATURE (IN)	548.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	1.000
VELOCITY RATIO	1.000
PRIMARY VELOCITY (FT/SEC)	1029.107
MASS FLOW RATIO	0.523
PRIMARY MASS FLOW (LB/SEC)	0.310
THRUST (LBS)	21.465
ENVIRONMENTAL TEMPERATURE (IN)	535.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.112
INSTRUMENTATION NO (SE FLOOR 108)	70.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL (SCALED FOR THRUST)
OVERALL	1.99979E+01	141.0	THRUST 10000 108.4 20000 171.5 40000 174.5 80000 177.5
500	0.51501E+02	175.5	
1000	0.01579E+01	124.8	
2000	1.79455E+00	132.5	
4000	4.26740E+00	136.3	
8000	5.06133E+00	137.0	
16000	3.48425E+00	133.9	
31500	1.05556E+00	130.2	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	95.6	104.8	110.4	111.5	110.3	104.1	97.0	115.2
20.0	96.7	105.3	111.0	112.8	111.7	105.9	99.3	117.4
25.0	93.4	103.6	111.1	113.3	112.4	107.9	101.6	119.0
30.0	92.1	102.3	110.6	113.0	113.6	109.4	103.0	118.0
35.0	90.7	100.7	109.4	113.9	113.0	109.8	104.9	118.5
40.0	88.4	98.4	107.3	112.7	113.0	109.8	104.9	117.8
45.0	84.9	95.3	104.7	110.7	112.4	109.1	104.0	116.4
50.0	81.3	93.3	101.7	107.9	110.1	107.9	104.8	114.2
55.0	82.0	91.3	99.2	104.8	107.2	109.1	103.7	111.8
60.0	81.0	89.4	97.2	102.7	104.0	103.9	102.0	109.7
65.0	81.3	88.4	95.7	100.1	103.2	102.5	101.4	108.4
70.0	81.3	87.4	94.0	99.1	101.5	101.3	100.4	107.1
75.0	80.1	87.5	94.2	98.5	100.8	100.8	99.5	105.4
80.0	79.8	87.5	93.5	97.5	99.8	99.8	98.5	105.0
85.0	78.1	86.4	92.5	96.1	98.1	99.3	97.3	104.7
90.0	79.1	85.4	92.3	95.9	98.0	98.3	95.5	104.6
95.0	75.1	85.0	91.1	95.0	98.2	98.0	94.0	103.4
100.0	77.1	84.7	90.9	94.9	97.7	98.0	93.0	103.0
105.0	77.1	81.8	89.9	93.7	97.4	97.5	92.4	102.4
110.0	78.2	82.9	89.7	93.4	97.2	97.0	92.4	102.2
115.0	78.6	82.7	89.2	92.3	97.0	97.0	90.3	102.1

MODEL THRUST = 21.465 FULL SCALE THRUST = 25000.000

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVERALL	ANGLE (DEG)
15.0	95.6	104.8	110.4	111.5	110.3	104.1	97.0	115.2	15.0
20.0	96.7	105.3	111.0	112.8	111.7	105.9	99.3	117.4	20.0
25.0	93.4	103.6	111.1	113.3	112.4	107.9	101.6	119.0	25.0
30.0	92.1	102.3	110.6	113.0	113.6	109.4	103.0	118.0	30.0
35.0	90.7	100.7	109.4	113.9	113.0	109.8	104.9	118.5	35.0
40.0	88.4	98.4	107.3	112.7	113.0	109.8	104.9	117.8	40.0
45.0	84.9	95.3	104.7	110.7	112.4	109.1	104.0	116.4	45.0
50.0	81.3	93.3	101.7	107.9	110.1	107.9	104.8	114.2	50.0
55.0	82.0	91.3	99.2	104.8	107.2	109.1	103.7	111.8	55.0
60.0	81.0	89.4	97.2	102.7	104.0	103.9	102.0	109.7	60.0
65.0	81.3	88.4	95.7	100.1	103.2	102.5	101.4	108.4	65.0
70.0	81.3	87.4	94.0	99.1	101.5	101.3	100.4	107.1	70.0
75.0	80.1	87.5	94.2	98.5	100.8	100.8	99.5	105.4	75.0
80.0	79.8	87.5	93.5	97.5	99.8	99.8	98.5	105.0	80.0
85.0	78.1	86.4	92.5	96.1	98.1	99.3	97.3	104.7	85.0
90.0	79.1	85.4	92.3	95.9	98.0	98.3	95.5	104.6	90.0
95.0	75.1	85.0	91.1	95.0	98.2	98.0	94.0	103.4	95.0
100.0	77.1	84.7	90.9	94.9	97.7	98.0	93.0	103.0	100.0
105.0	77.1	81.8	89.9	93.7	97.4	97.5	92.4	102.4	105.0
110.0	78.2	82.9	89.7	93.4	97.2	97.0	92.4	102.2	110.0
115.0	78.6	82.7	89.2	92.3	97.0	97.0	90.3	102.1	115.0

RUN NUMBER	468.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (°R)	917.000
SECONDARY TEMPERATURE (°R)	547.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	1.000
VELOCITY RATIO	1.574
PRIMARY VELOCITY (FT/SEC)	1824.230
MASS FLOW RATIO	0.764
PRIMARY MASS FLOW (LB/SEC)	0.327
THRUST (LBS)	26.624
ENVIRONMENTAL TEMPERATURE (°R)	535.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO OY/50 CM)	0.126
INSTRUMENTATION NOISE FLOOR (DB)	71.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.79485E+01	142.5	THRUST	POWER LEVEL (DB)
500	5.53635E-02	117.4	10000	168.3
1000	4.90420E-01	126.9	20000	171.3
2000	2.74381E+00	134.4	40000	174.3
4000	5.63593E+00	137.5	80000	177.3
8000	5.56777E+00	137.5		
16000	2.38851E+00	133.8		
31500	1.06669E+00	130.3		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.3	107.2	112.3	112.6	110.6	103.5	94.6	117.4
20.0	98.8	108.8	113.0	113.9	112.1	104.9	98.6	118.4
25.0	99.7	109.9	113.1	114.9	113.2	105.9	99.7	119.1
30.0	94.1	104.3	112.7	115.3	114.1	108.3	101.7	119.8
35.0	91.7	102.4	111.3	115.2	114.8	109.7	103.4	119.5
40.0	90.2	99.9	109.0	113.9	114.2	109.2	103.8	118.5
45.0	87.6	97.4	106.1	111.9	113.0	109.0	104.4	117.0
50.0	85.8	95.5	103.4	108.1	110.0	107.7	104.5	114.4
55.0	84.3	92.5	100.2	105.2	107.4	106.5	103.4	112.3
60.0	85.6	90.8	98.3	102.5	105.2	104.7	103.2	110.4
65.0	82.9	90.1	96.6	100.5	103.3	103.0	102.6	108.9
70.0	82.5	89.6	96.0	100.0	102.4	102.5	101.0	108.0
75.0	82.0	88.5	95.1	98.7	100.9	101.6	100.0	106.8
80.0	81.6	88.1	94.4	97.7	99.8	100.5	98.5	105.7
85.0	81.6	87.1	93.4	96.8	99.0	99.5	98.0	104.9
90.0	81.1	86.9	92.8	96.4	98.5	98.5	97.5	104.3
95.0	80.6	86.3	92.0	95.7	97.5	98.0	96.5	103.5
100.0	80.1	85.8	91.5	94.8	97.0	97.5	96.1	102.9
105.0	79.5	85.1	90.8	94.4	96.5	97.0	95.5	102.4
110.0	78.9	84.8	90.2	93.8	96.0	97.0	95.5	102.1
115.0	78.9	83.7	90.3	93.7	95.8	96.5	95.0	101.7

MODEL THRUST = 26.624 FULL SCALE THRUST = 20000.000

L.	PHASE	OASPL	18.2	OCTAVE 36.5	BAND 73.0	SOUND 145.9	PRESSURE 291.9	LEVELS 583.8	1149.3	2298.6	4560.7	9121.4	18242.8
3795.8	91.51	91.17	90.4	72.33	81.21	88.18	86.23	81.33	73.89	61.35	45.46	16.59	-34.78 -118.49
4385.7	95.91	95.31	94.4	73.23	83.22	89.41	90.04	87.55	78.59	67.98	55.23	32.85	-6.98 -71.03
3949.3	99.01	98.21	97.6	73.96	84.23	91.38	92.97	90.72	81.96	72.29	61.39	42.55	0.97 -42.50
3088.0	101.71	100.01	98.8	73.84	84.01	92.44	94.84	93.19	86.22	76.66	66.99	50.60	-22.60 -22.22
2615.2	103.61	102.31	100.0	72.58	83.39	92.21	95.98	95.14	89.00	80.18	71.37	56.69	-31.90 -7.55
2333.4	104.71	102.61	100.0	72.11	81.80	90.90	95.72	95.62	89.69	81.99	73.80	60.39	-37.94 2.41
2121.3	104.77	102.31	99.3	70.39	80.19	88.84	94.51	95.28	90.47	83.74	76.02	63.55	-62.87 10.31
1958.1	102.91	100.51	97.2	69.31	77.93	86.84	91.40	93.00	89.97	84.81	77.45	65.71	-46.39 16.10
1831.7	101.71	99.01	95.6	66.37	76.55	84.20	89.14	91.09	87.44	84.91	77.84	66.66	-48.40 19.80
1732.1	100.61	97.51	94.2	68.16	75.36	82.77	86.96	89.36	86.12	84.93	78.08	67.35	-49.92 22.77
1655.1	99.91	96.41	93.1	67.80	75.06	81.56	85.69	87.83	84.93	84.86	78.18	67.79	-51.00 24.93
1596.3	99.31	96.01	92.5	67.71	74.82	81.21	85.13	87.25	84.71	83.70	77.15	67.02	-50.72 25.67
1552.9	98.57	95.21	91.6	67.52	74.63	80.59	84.05	86.01	83.12	82.96	76.51	66.58	-50.64 25.99
1523.1	97.61	94.31	90.7	67.24	73.74	80.04	83.23	85.13	82.21	81.67	75.28	65.48	-49.79 25.46
1505.7	96.91	93.51	90.0	67.34	72.40	79.09	82.69	84.42	81.32	81.35	75.00	65.28	-49.73 25.74
1505.0	96.31	92.81	89.4	66.91	72.67	78.54	82.06	83.97	81.31	80.91	74.58	64.88	-49.38 25.47
1505.7	95.41	92.01	88.6	66.39	72.09	77.72	81.35	82.69	80.83	79.83	73.48	63.76	-48.21 24.13
1523.1	94.71	91.41	87.9	65.75	71.41	77.12	80.40	82.32	80.19	79.28	72.89	63.09	-47.40 23.17
1552.9	93.91	90.81	87.2	65.12	70.62	76.22	79.77	81.64	79.47	78.46	72.01	62.08	-46.16 21.60
1596.3	93.51	90.21	86.6	64.18	70.05	75.49	78.92	80.86	78.70	77.14	71.61	61.48	-45.18 19.93
1655.1	92.51	89.41	85.9	63.87	69.67	74.88	78.48	80.40	77.27	70.59	60.28	43.41	-17.36

W. NUMBER	469.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (°F)	920.000
SECONDARY TEMPERATURE (°F)	555.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	2.007
VELOCITY RATIO	1.471
PRIMARY VELOCITY (FT/SEC)	1027.212
MASS FLOW RATIO	.937
PRIMARY MASS FLOW (LB/SEC)	.328
THRUST (LBS)	25.985
ENVIRONMENTAL TEMPERATURE (°F)	541.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.199
INSTRUMENTATION NOISE FLOOR (DB)	75.578

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL (SCALED FOR THRUST)	
OVERALL	3.84217E+01	145.8	THRUST	POWER LEVEL (DB)
500	4.78782E+02	116.8	10000	171.5
1000	4.29604E+01	126.3	20000	174.5
2000	2.76169E+00	134.4	40000	177.5
4000	8.41485E+00	139.3	80000	180.5
8000	1.34661E+01	141.3		
16000	7.85824E+00	139.0		
31500	3.44359E+00	135.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	OVER
		1000	2000	4000	8000	16000		ALL
15.0	97.4	106.3	112.1	114.7	116.0	113.9	109.7	120.9
20.0	96.4	105.8	112.8	115.3	117.0	115.5	111.1	121.9
25.0	95.3	105.2	112.9	116.4	118.5	116.5	112.0	123.0
30.0	93.7	104.1	112.9	117.0	118.8	116.9	113.2	123.4
35.0	92.0	102.3	111.7	117.4	118.9	115.9	111.7	123.1
40.0	89.5	99.5	109.4	115.6	118.0	114.0	109.9	121.6
45.0	87.2	97.5	106.5	114.7	116.5	112.7	109.2	120.2
50.0	85.1	94.7	103.3	109.6	112.7	111.0	108.3	116.9
55.0	83.5	92.1	100.6	106.5	109.8	109.0	106.4	114.4
60.0	82.3	90.0	98.1	103.6	106.9	106.4	104.2	111.7
65.0	81.6	89.1	96.1	101.1	104.3	104.4	103.2	109.7
70.0	80.8	88.5	95.3	99.9	102.7	102.0	102.0	108.3
75.0	80.8	87.7	94.0	98.5	101.3	101.8	100.5	107.0
80.0	80.8	86.9	93.8	97.0	100.6	101.0	99.5	106.2
85.0	80.0	86.9	93.3	97.1	99.5	100.0	98.5	105.3
90.0	80.0	86.5	92.9	96.7	99.1	99.5	97.9	104.9
95.0	80.0	85.6	91.9	95.8	99.0	98.6	97.0	104.1
100.0	79.1	85.6	91.3	95.2	99.1	98.6	96.5	104.0
105.0	79.1	85.1	90.4	94.6	97.8	98.0	96.1	103.2
110.0	78.1	84.0	90.4	94.1	97.6	97.5	95.4	102.7
115.0	78.1	83.4	90.1	94.1	98.0	97.0	95.1	102.6

MODEL THRUST = 25.985 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	18.0	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	2270.9	4505.7	9011.4	18022.7
			36.0	72.1	144.2	288.4	576.7	1135.4				
3795.4	96.91	96.21	93.6	71.34	80.43	86.19	86.42	88.84	84.47	74.62	58.91	30.33
4385.7	101.2	100.21	97.2	72.97	82.35	89.33	91.57	92.64	89.33	80.70	64.07	45.72
3949.3	104.8	103.51	100.3	73.68	83.61	91.28	94.58	96.14	92.74	84.75	73.66	55.30
3000.0	107.1	105.51	102.3	73.13	84.00	92.75	96.65	98.00	94.95	84.28	78.70	62.46
2615.2	108.3	106.51	103.4	73.11	83.36	92.70	98.24	99.43	95.39	89.58	79.85	65.31
2333.4	108.1	106.21	103.0	71.60	81.54	91.37	97.49	99.55	94.61	84.30	80.18	66.88
2121.3	107.4	105.71	102.5	70.12	80.40	89.30	97.40	99.42	94.25	85.69	81.03	68.67
1958.1	105.4	103.21	99.0	68.69	78.23	86.04	93.01	95.83	93.39	84.79	81.49	69.85
1831.2	104.0	101.21	97.8	67.69	74.25	84.71	90.52	93.55	92.00	87.63	80.62	69.53
1732.1	102.1	99.01	95.6	66.93	74.68	82.76	88.13	91.13	89.44	85.14	74.34	68.70
1655.1	100.8	97.41	94.0	65.63	74.16	81.16	86.01	89.03	88.38	84.61	78.98	68.68
1596.3	99.8	96.41	92.9	64.19	73.41	80.43	85.14	87.64	87.14	84.83	74.33	68.28
1557.0	98.9	95.51	91.9	62.43	73.33	79.83	83.49	86.51	86.52	83.62	77.22	67.36
1523.1	98.31	94.91	91.3	60.59	72.70	74.49	83.69	86.02	85.77	82.82	76.47	66.75
1505.7	97.41	94.01	90.5	60.87	72.80	79.16	82.49	85.04	84.95	81.46	75.66	66.01
1500.0	97.01	93.61	90.1	60.90	72.41	78.73	82.50	84.72	84.44	81.46	75.17	65.55
1505.7	96.11	92.71	89.4	60.87	71.46	77.71	81.47	84.46	84.49	80.45	74.14	64.50
1523.1	95.41	92.51	87.1	60.45	71.36	77.69	80.41	84.58	83.34	79.49	73.55	63.83
1557.9	94.91	91.41	86.1	60.48	70.76	76.31	80.11	83.10	82.49	78.23	72.83	62.47
1594.3	94.01	90.41	85.4	60.47	69.37	75.77	79.11	82.57	81.45	74.21	71.71	61.66
1655.1	93.41	90.31	84.0	60.11	68.46	75.14	74.99	82.67	80.94	77.55	70.92	60.62

RUN NUMBER	470.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	921.000
SECONDARY TEMPERATURE (R)	550.000
PRIMARY PRESSURE RATIO	3.900
AREA RATIO	2.007
VELOCITY RATIO	.575
PRIMARY VELOCITY (FT/SEC)	1028.205
MASS FLOW RATIO	1.529
PRIMARY MASS FLOW (LB/SEC)	.323
THRUST (LBS)	34.447
ENVIRONMENTAL TEMPERATURE (R)	541.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.252
INSTRUMENTATION NOISE FLOOR (DB)	77.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	5.10029E+01	147.1	THRUST	POWER LEVEL (DB)
500	6.42064E-02	114.1	10000	171.7
1000	6.93716E-01	128.4	20000	174.7
2000	4.61737E+00	136.6	40000	177.7
4000	1.14879E+01	140.6	60000	180.7
8000	1.69751E+01	142.3		
16000	1.16434E+01	140.7		
31500	5.52534E+00	137.4		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.9	107.9	113.4	114.8	115.1	112.7	109.4	120.7
20.0	97.7	106.7	115.1	117.0	118.0	115.9	112.4	123.2
25.0	96.8	107.5	115.7	118.2	119.7	118.0	114.0	124.7
30.0	94.9	106.0	115.2	118.9	120.4	118.9	114.6	125.2
35.0	92.7	104.1	113.8	118.5	119.9	118.0	114.3	124.6
40.0	90.7	102.0	112.1	117.5	118.9	116.1	112.1	123.2
45.0	88.0	99.0	108.4	114.4	117.0	114.7	111.4	121.1
50.0	85.5	96.0	105.3	111.2	114.1	112.9	110.0	118.6
55.0	83.6	92.9	101.7	106.4	109.8	109.6	108.1	115.0
60.0	81.8	91.2	99.7	104.5	107.8	108.3	107.1	113.4
65.0	82.9	90.1	97.7	102.4	105.5	106.5	105.5	111.5
70.0	82.0	90.1	96.3	101.3	104.3	105.2	104.5	110.3
75.0	82.0	89.0	96.4	100.6	102.9	104.1	103.0	109.2
80.0	82.5	89.0	95.6	99.7	102.2	103.5	102.5	108.5
85.0	81.1	88.5	95.1	98.9	101.3	102.5	101.5	107.6
90.0	81.1	88.1	94.4	98.0	100.4	102.1	100.5	106.8
95.0	81.1	87.6	93.9	97.7	100.7	101.5	100.0	106.5
100.0	80.7	87.1	93.1	97.0	100.4	101.0	99.6	106.1
105.0	80.1	86.6	92.5	96.1	99.4	100.4	99.6	105.5
110.0	78.9	86.0	92.5	96.1	99.4	100.4	99.0	105.3
115.0	78.9	84.8	91.1	95.3	99.4	100.0	99.0	105.0

MODEL THRUST = 34.447 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 20.8	BAND 41.5	SOUND 83.0	PRESSURE 166.0	LEVELS 332.0	664.0	1307.3	2614.6	5187.6	10375.3	20750.5
9799.4	95.31 99.81	92.2	71.88	80.77	86.19	87.17	86.43	81.22	71.28	53.47	21.24	-35.32	-126.19
4385.7	101.31 100.51	97.2	73.08	84.05	90.36	91.93	92.18	87.95	79.38	65.16	40.04	-3.48	-72.94
3549.3	105.31 104.21	100.4	74.03	84.71	92.78	95.11	95.94	92.50	84.48	72.38	51.48	15.68	-41.13
3000.0	107.41 106.41	102.7	73.55	86.63	93.74	97.26	98.25	95.31	87.50	76.83	58.70	27.98	-20.51
2615.7	109.81 107.21	103.4	72.50	83.94	93.54	98.13	99.06	95.43	89.18	79.49	63.30	36.14	-4.51
2333.5	109.61 106.91	103.2	71.49	82.81	92.87	98.09	99.08	95.14	88.50	79.53	64.76	40.20	1.82
2121.3	107.41 105.91	101.7	69.71	80.70	90.55	96.43	98.06	94.73	89.01	80.59	66.89	44.20	3.13
1950.1	106.31 104.01	100.0	67.91	78.32	87.44	91.34	95.90	93.75	88.68	80.68	67.40	46.71	14.02
1831.2	103.51 100.91	96.9	66.55	75.33	84.59	89.61	92.27	91.19	87.57	79.80	67.65	47.73	14.97
1732.1	102.61 99.81	95.7	67.54	74.57	83.03	87.41	90.73	90.36	87.24	79.82	68.08	49.08	19.81
1655.1	101.31 99.41	94.2	66.68	73.94	81.46	86.07	88.83	89.10	86.19	78.95	67.61	49.31	21.22
1596.3	100.71 97.61	93.4	66.16	74.26	80.44	85.30	87.98	88.12	85.58	78.50	67.44	49.69	22.49
1557.9	99.81 96.71	92.5	65.40	73.34	80.73	84.95	86.87	87.30	84.47	77.50	67.44	49.32	22.77
1523.1	99.41 96.21	92.1	66.57	73.51	80.67	84.05	86.32	86.90	84.16	77.26	66.98	49.31	23.41
1505.7	99.41 95.41	91.3	65.75	73.18	79.73	83.38	85.53	86.03	83.27	76.42	65.42	48.91	23.09
1500.0	97.81 94.81	90.6	65.79	72.77	79.05	82.53	84.67	85.29	82.33	75.49	64.93	48.07	22.32
1505.7	97.41 94.41	90.3	65.75	72.27	78.45	82.18	84.41	85.05	81.75	74.90	64.30	47.39	21.56
1523.1	95.71 93.71	89.7	64.63	71.67	77.47	81.41	84.55	84.50	81.24	74.34	63.66	46.56	20.49
1557.9	95.71 93.01	89.9	64.46	70.77	76.41	80.73	83.10	83.44	81.01	74.04	63.21	45.86	19.31
1594.3	95.51 92.61	89.5	63.06	70.14	76.46	80.49	83.14	83.16	81.09	73.01	61.96	44.21	17.01
1645.1	94.41 91.71	87.4	62.75	69.62	74.91	78.36	82.81	82.54	79.66	72.43	61.08	42.79	14.70

RUN NUMBER	471.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	921.000
SECONDARY TEMPERATURE (R)	550.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	4.856
VELOCITY RATIO	4.19
PRIMARY VELOCITY (FT/SEC)	1828.205
MASS FLOW RATIO	2.663
PRIMARY MASS FLOW (LB/SEC)	310
THRUST (LBS)	37.258
ENVIRONMENTAL TEMPERATURE (R)	540.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CH)	100
INSTRUMENTATION NOISE FLOOR (DB)	69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.10140E+01	140.4	THRUST	POWER LEVEL (DB)
500	6.22244E+02	117.9	10000	164.7
1000	4.17227E+01	126.2	20000	167.7
2000	1.74374E+00	132.4	40000	170.7
4000	3.28000E+00	135.2	80000	173.7
8000	3.20789E+00	135.1		
16000	1.53500E+00	131.9		
31500	7.67452E+01	128.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.3	105.6	108.6	106.8	101.6	100.5	95.9	112.8
20.0	97.7	105.8	110.0	108.5	103.3	98.8	95.5	113.9
25.0	96.5	105.3	111.0	110.6	106.9	100.6	97.4	115.4
30.0	95.0	104.1	111.1	112.5	104.3	102.1	97.2	116.5
35.0	93.0	102.1	109.8	113.4	111.5	104.5	98.1	117.0
40.0	90.4	99.6	107.3	112.5	112.8	106.9	100.1	116.9
45.0	87.8	96.4	104.6	110.2	111.7	107.4	102.0	115.5
50.0	85.4	93.6	100.9	106.6	109.2	106.6	102.3	113.2
55.0	83.8	91.3	98.3	103.6	106.3	105.1	101.9	110.8
60.0	82.6	90.2	96.9	101.4	104.1	103.6	102.2	109.3
65.0	82.6	89.3	95.8	99.9	102.1	102.1	101.5	107.9
70.0	82.0	88.7	95.3	98.8	101.3	101.6	100.5	107.1
75.0	82.6	88.8	94.5	98.2	100.6	101.0	99.5	106.4
80.0	82.3	88.5	94.1	97.5	99.6	100.0	99.0	105.6
85.0	82.0	87.8	93.6	96.9	99.5	99.5	98.0	105.0
90.0	81.2	87.4	93.0	96.5	99.0	99.0	98.0	104.7
95.0	81.2	87.0	92.6	96.1	98.5	98.5	97.5	104.2
100.0	80.4	86.1	91.8	95.4	98.0	98.5	97.0	103.8
105.0	79.1	85.9	91.8	95.1	97.5	98.0	96.5	103.3
110.0	79.1	85.1	90.9	94.5	97.5	98.0	96.0	103.1
115.0	79.1	84.6	90.5	94.1	97.0	97.5	95.5	102.6

MODEL THRUST = 37.258 FULL SCALE THRUST = 20000.000

L.	PND8.	CASPL	OCTAVE 21.6	BAND 43.2	SOUND 86.3	PRESSURE 172.6	LEVELS 345.3	690.6	1359.6	2719.2	5385.1	10780.3	21580.6
9795.6	86.81	86.41	88.8	70.93	78.10	81.03	78.79	72.53	68.39	56.87	38.42	5.10	-53.13 -146.21
4385.7	89.11	88.61	88.5	72.70	80.82	84.86	83.05	77.09	70.28	61.75	47.06	21.12	-23.67 -94.44
2549.3	93.41	92.61	91.8	73.33	82.13	87.80	87.13	82.70	74.63	67.13	54.67	33.10	-3.72 -61.89
3000.0	96.51	95.71	94.4	73.29	82.39	89.35	90.57	86.72	78.00	69.49	58.50	39.80	8.22 -41.41
2615.2	99.71	98.31	96.1	72.49	81.56	89.24	92.64	90.22	81.86	72.41	62.44	45.76	17.84 -25.81
2333.6	101.21	100.11	96.9	70.88	80.64	87.73	92.82	92.61	85.53	75.91	66.68	51.48	26.24 -13.03
2121.3	101.41	100.01	96.7	69.13	77.75	85.89	91.35	92.41	87.04	79.04	70.38	56.29	33.07 -2.90
1958.1	100.31	98.51	94.4	67.38	75.59	82.90	88.45	90.67	87.04	80.35	72.13	58.89	37.23 3.79
1831.2	98.91	96.71	92.5	66.43	73.87	80.45	85.99	88.33	86.26	80.84	72.96	60.38	39.93 8.47
1732.1	98.11	95.51	91.4	65.71	73.28	79.97	84.28	86.65	85.34	81.81	74.19	62.13	42.63 12.71
1655.1	97.71	94.51	90.3	66.11	72.78	79.19	83.23	85.11	84.21	81.65	74.24	62.58	43.81 15.08
1596.3	96.91	94.01	89.4	65.75	72.44	79.07	82.45	84.63	84.07	81.11	73.85	62.50	44.29 16.48
1552.9	96.41	93.51	89.4	66.66	72.46	78.48	82.11	84.14	83.76	80.41	73.27	62.15	44.35 17.31
1523.1	96.01	93.11	88.9	66.50	72.67	78.25	81.60	83.40	82.96	80.16	73.10	62.13	44.62 17.44
1505.7	95.41	92.51	88.5	66.26	72.65	77.82	81.07	83.39	82.57	79.25	72.23	61.36	44.01 17.61
1500.0	95.11	92.21	88.1	65.57	71.69	77.29	80.70	82.88	82.14	79.29	72.29	61.45	44.15 17.44
1505.1	94.61	91.71	87.6	65.54	71.26	76.91	80.30	82.34	81.60	78.77	71.76	60.88	43.54 17.13
1523.1	94.01	91.11	87.1	64.65	70.29	75.42	78.48	81.77	81.49	78.14	71.08	60.11	42.60 15.92
1552.9	93.71	90.91	86.5	63.14	69.74	75.75	78.97	81.89	80.77	77.38	70.24	59.11	41.32 14.14
1598.3	92.71	90.01	85.9	62.40	68.91	74.67	78.41	80.44	80.44	74.60	69.34	57.99	39.78 11.97
1655.1	91.91	89.11	85.1	62.58	68.07	73.40	77.41	79.98	79.65	75.69	68.28	56.62	37.85 9.12

RUN NUMBER	472.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (M)	910.000
SECONDARY TEMPERATURE (M)	350.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	4.856
VELOCITY RATIO	.576
PRIMARY VELOCITY (FT/SEC)	1025.225
MASS FLOW RATIO	3.447
PRIMARY MASS FLOW (LB/SEC)	3.328
THRUST (LBS)	59.924
ENVIRONMENTAL TEMPERATURE (R)	539.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.000
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/50 CM)	1.00
INSTRUMENTATION NOISE FLOOR (DB)	69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.39840E+01	141.5	THRUST	POWER LEVEL(DB)
500	1.45183E-01	121.6	10000	163.7
1000	8.30242E-01	129.2	20000	166.7
2000	2.68225E+00	134.3	40000	169.7
4000	3.89112E+00	135.9	80000	172.7
8000	3.41057E+00	135.3		
16000	1.82728E+00	132.6		
31500	1.17732E+00	130.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 4000	LEVELS 16000	31500	OVER ALL
15.0	102.5	108.4	109.4	105.8	102.7	101.4	96.2	113.9
20.0	101.2	109.0	111.3	108.1	104.2	101.5	97.2	115.3
25.0	100.2	108.4	112.2	109.9	105.7	101.2	97.5	116.0
30.0	98.5	106.8	112.1	111.4	106.9	101.7	98.1	116.3
35.0	96.1	104.9	111.7	113.1	104.0	103.0	99.1	116.9
40.0	93.8	102.7	109.9	113.2	111.0	104.4	100.0	116.9
45.0	91.3	99.7	107.1	111.3	111.5	106.2	101.7	116.0
50.0	88.5	97.0	104.2	108.6	110.4	106.9	103.5	114.5
55.0	87.6	88.5	101.6	105.8	108.0	106.5	104.6	112.8
60.0	84.7	93.3	100.1	104.3	106.1	105.3	104.5	111.5
65.0	87.1	93.6	99.7	103.5	105.1	104.5	103.5	110.7
70.0	86.7	92.8	98.5	102.7	104.2	103.5	102.5	109.7
75.0	86.7	93.0	98.1	101.8	103.6	103.0	102.0	109.2
80.0	85.8	92.1	97.8	100.8	102.8	102.0	101.0	108.3
85.0	85.6	91.6	96.9	100.2	102.0	101.5	100.5	107.7
90.0	84.9	90.9	96.5	100.0	101.5	101.0	100.0	107.2
95.0	84.6	90.3	96.2	99.6	101.0	100.5	99.5	106.8
100.0	84.1	90.2	95.1	99.0	101.0	100.0	99.0	106.3
105.0	83.5	89.6	95.1	98.9	100.5	100.0	99.0	106.2
110.0	82.9	89.1	94.4	98.8	100.5	99.5	98.5	105.8
115.0	82.6	88.3	94.6	98.6	100.0	99.5	98.5	105.7

MODEL THRUST = 59.924 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE 27.4	BAND 54.7	SOUND 109.5	PRESSURE 218.9	LEVELS 437.9	875.8	1724.2	3448.5	6842.2	13684.4	27368.7
8795.6	83.81	83.81	83.8	73.01	78.83	79.67	75.49	70.80	65.44	51.09	28.30	-12.24	-81.33
4348.7	88.61	88.21	87.7	74.17	81.87	84.05	80.39	75.32	69.50	58.28	40.31	8.90	-44.11
3549.3	92.11	91.61	90.3	75.02	83.10	86.45	84.23	79.00	72.01	62.68	47.56	21.57	-21.90
3088.8	94.71	94.11	92.0	74.70	82.99	88.18	87.22	81.91	74.55	66.28	53.04	30.61	-6.60
2615.7	97.41	96.61	93.9	73.58	82.33	89.05	90.19	85.32	77.49	69.46	57.53	37.59	4.77
2333.6	98.91	98.01	94.8	72.25	81.67	88.25	91.30	88.50	80.21	72.13	61.17	43.05	13.44
2121.3	99.81	98.71	94.5	70.52	78.89	88.29	90.27	89.90	83.13	75.19	64.95	48.71	21.02
1950.1	99.91	98.51	93.5	68.44	76.91	84.03	88.29	89.51	84.65	74.17	68.49	52.80	27.47
1831.7	99.01	97.11	92.1	68.16	79.00	82.07	86.11	87.75	85.03	80.15	70.90	56.04	32.16
1732.1	98.81	96.81	91.2	67.89	74.29	81.00	85.05	86.43	84.35	80.82	71.90	57.68	34.93
1655.1	98.51	96.51	90.9	68.48	74.78	81.39	84.65	85.86	84.06	80.45	71.80	58.08	36.21
1596.3	97.91	95.81	90.2	68.40	74.49	80.21	83.74	84.23	83.43	79.89	71.44	58.10	36.90
1552.9	97.81	95.71	90.0	68.64	74.94	80.61	83.58	84.93	83.25	79.79	71.49	58.43	37.72
1523.1	97.11	95.01	89.3	67.96	74.24	79.92	82.68	84.35	82.44	79.00	70.80	57.93	37.56
1505.7	96.71	94.51	88.8	67.83	73.87	79.11	82.27	83.83	82.66	78.60	70.53	57.78	37.61
1500.0	96.31	94.11	88.4	67.15	73.14	78.64	82.07	83.13	81.57	74.23	70.11	57.39	37.28
1505.7	95.71	93.51	87.9	66.86	72.57	78.34	81.63	82.62	81.08	77.65	69.51	56.76	36.59
1523.1	95.11	92.91	87.4	66.24	72.33	77.22	80.45	82.51	80.42	77.03	68.83	55.86	35.59
1557.9	94.71	92.51	87.0	65.51	71.57	76.74	80.87	81.83	80.22	76.78	68.40	55.42	34.71
1596.3	94.01	91.91	86.4	64.67	70.44	76.15	80.24	81.57	79.42	75.92	67.47	54.12	32.92
1655.1	93.41	91.31	85.9	64.04	69.70	75.03	79.42	80.70	79.04	75.44	66.79	53.07	31.20

RUN NUMBER	
AIRIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	473.000
PRIMARY TEMPERATURE (R)	4.100
SECONDARY TEMPERATURE (R)	921.000
PRIMARY PRESSURE RATIO	550.000
AREA RATIO	3.500
VELOCITY RATIO	9.788
PRIMARY VELOCITY (FT/SEC)	419
MASS FLOW RATIO	1020.205
PRIMARY MASS FLOW (LB/SEC)	4.832
THRUST (LBS)	328
ENVIRONMENTAL TEMPERATURE (R)	56.412
ENVIRONMENTAL PRESSURE (IN.HG)	538.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.000
CALIBRATION FACTOR (MV TO OY/50 CM)	70.000
INSTRUMENTATION NOISE FLOOR (DB)	68.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.20242E+01	140.8	THRUST	POWER LEVEL (DB)
300	1.19115E+01	120.3	10000	163.3
1000	6.89187E-01	128.4	20000	166.3
2000	2.34944E+00	133.7	40000	169.3
4000	3.33668E+00	135.7	80000	172.3
8000	2.96487E+00	134.1		
16000	1.74854E+00	132.4		
31500	6.15962E-01	129.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	101.2	107.3	108.6	105.4	102.9	102.2	96.6	113.3
20.0	100.7	107.8	110.1	106.9	103.6	102.5	97.8	114.3
25.0	98.8	107.4	111.6	108.5	103.4	101.4	97.4	115.1
30.0	97.3	105.7	111.9	111.1	108.8	103.5	99.0	116.4
35.0	95.7	103.9	110.8	111.9	107.6	103.2	99.4	115.9
40.0	93.3	102.0	109.1	111.8	110.1	105.1	100.7	116.0
45.0	91.4	99.7	107.3	111.0	110.9	106.7	102.4	115.8
50.0	89.3	97.4	104.6	108.5	109.7	107.0	103.0	114.3
55.0	87.7	95.9	102.8	105.6	108.3	106.4	102.6	112.8
60.0	86.6	93.9	100.3	108.2	106.0	105.5	102.5	112.4
65.0	86.8	92.9	98.7	102.2	105.2	104.5	102.0	110.1
70.0	85.5	92.2	97.9	101.5	104.4	103.5	101.0	109.3
75.0	85.4	91.6	96.8	99.9	102.6	102.5	100.0	107.9
80.0	84.4	90.7	96.1	99.3	101.6	101.5	99.0	107.0
85.0	84.4	89.9	95.4	98.5	100.5	100.5	98.0	106.1
90.0	83.9	89.6	94.7	97.7	100.0	99.5	97.0	105.3
95.0	83.4	88.8	94.2	97.5	99.5	98.5	96.5	104.7
100.0	82.8	88.3	94.0	97.0	98.5	98.0	95.5	104.0
105.0	82.0	87.8	93.3	96.3	98.5	97.5	95.0	103.6
110.0	81.3	87.1	92.2	95.3	98.0	97.0	94.5	103.0
115.0	81.0	86.6	92.6	95.8	97.5	96.5	94.0	102.7

MODEL THRUST = 56.412 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
		26.6	53.1	106.2	212.4	424.9	849.7	1672.9	3345.9	6638.7	13277.3	26554.7	
3749.4	83.81 83.4	83.3	71.93	78.05	79.19	75.43	71.38	68.72	52.29	30.10	-9.46	-77.10	-182.23
4385.7	88.01 87.6	86.9	73.92	80.96	83.09	79.52	75.04	70.95	59.56	42.04	11.37	-40.55	-126.85
3549.3	91.21 90.8	89.7	73.85	82.45	86.53	83.07	77.08	72.68	63.23	48.48	23.09	-19.50	-85.06
3000.0	95.21 94.3	92.3	73.76	82.22	88.26	87.25	84.09	76.83	67.72	54.79	32.86	-3.60	-59.48
2615.7	98.71 95.9	93.1	73.38	81.58	89.35	89.29	84.24	78.10	70.34	58.68	39.18	7.02	-42.08
2333.4	98.51 97.5	94.1	72.04	80.64	87.70	90.18	87.91	81.32	73.35	62.63	44.91	15.88	-28.25
2121.1	97.91 96.7	94.5	70.91	79.18	88.69	90.23	84.58	83.96	76.37	66.34	49.96	23.30	-17.09
1959.1	99.91 98.3	93.6	69.48	77.57	84.72	88.41	89.09	85.15	78.16	68.67	53.32	28.48	-9.03
1831.2	99.37 97.6	92.6	68.45	76.63	83.37	86.20	88.37	85.21	78.65	69.58	55.03	31.61	-33.67
1732.1	98.41 97.0	92.8	67.91	75.20	81.52	89.26	86.61	84.92	79.29	70.56	56.63	34.31	.78
1655.1	98.01 95.9	90.7	68.49	74.54	80.31	83.43	86.21	84.41	79.38	70.90	57.46	36.00	3.83
1596.3	97.51 95.4	90.2	67.46	74.17	79.44	83.24	85.73	83.78	78.81	70.52	57.45	36.65	5.51
1552.9	96.41 94.3	89.1	68.11	73.78	78.35	81.72	84.23	83.06	78.11	73.03	57.24	36.92	6.54
1522.1	95.71 93.5	88.4	67.23	73.84	78.43	81.45	83.37	82.26	77.45	69.41	56.80	36.81	6.97
1504.7	94.91 92.7	87.5	66.87	72.38	77.85	80.81	82.39	81.40	76.59	68.61	56.11	36.32	6.78
1500.4	94.11 91.9	86.8	66.42	72.15	77.15	80.03	81.95	80.39	75.60	67.63	55.17	35.44	6.00
1505.7	93.51 91.3	86.2	65.88	71.26	76.68	79.77	81.42	79.37	75.04	67.09	54.59	34.80	5.26
1523.1	92.51 90.4	85.5	65.23	70.70	76.11	79.19	80.27	78.78	73.90	65.85	53.74	33.26	3.41
1552.9	91.91 89.8	84.9	64.18	70.04	75.47	78.11	80.04	78.08	73.20	65.06	52.26	31.84	1.57
1596.3	91.01 89.0	83.9	63.30	69.11	74.16	77.07	79.35	77.27	72.37	64.09	51.61	30.21	-0.93
1655.1	90.31 88.3	83.4	62.64	68.23	74.18	77.26	79.51	76.42	71.40	62.92	49.68	28.02	-6.15

RUN NUMBER	474.000
AXIAL POSITION OF PRIMARY WPT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	921.000
SECONDARY TEMPERATURE (R)	550.000
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	9.788
VELOCITY RATIO	.574
PRIMARY VELOCITY (FT/SEC)	1028.205
MASS FLOW RATIO	7.759
PRIMARY MASS FLOW (LB/SEC)	.325
THRUST (LBS)	100.719
ENVIRONMENTAL TEMPERATURE (R)	533.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	.100
INSTRUMENTATION NOISE FLOOR (DB)	69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.98019E+01	142.9	THRUST	POWER LEVEL (DB)
500	4.27350E-01	126.3	10000	162.9
1000	1.93313E+00	132.9	20000	165.9
2000	4.55777E+00	135.6	40000	168.9
4000	4.82944E+00	136.8	80000	171.9
8000	4.00836E+00	136.0		
16000	2.52474E+00	134.0		
31500	1.38088E+00	131.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	106.7	111.8	110.6	107.3	104.7	101.5	96.3	116.2
20.0	106.0	111.7	111.8	108.1	104.5	100.9	95.0	116.5
25.0	104.3	111.1	112.4	108.3	104.8	102.1	98.0	116.5
30.0	103.0	110.3	113.5	110.5	107.5	104.3	100.3	117.5
35.0	101.2	108.5	113.4	111.8	108.0	105.0	101.6	117.5
40.0	98.9	106.9	112.6	112.5	108.8	105.3	101.5	117.3
45.0	96.6	104.5	110.9	112.2	110.2	105.8	101.7	116.7
50.0	94.7	102.4	108.8	111.3	110.1	106.1	102.3	115.9
55.0	93.1	100.2	106.9	109.3	109.1	106.5	103.5	114.7
60.0	92.9	99.4	105.3	107.7	108.1	106.2	103.6	113.7
65.0	92.3	98.3	104.0	106.5	107.4	105.9	104.2	112.9
70.0	92.0	97.9	103.0	105.7	107.0	105.5	104.0	112.4
75.0	91.5	96.6	101.8	104.3	105.5	105.0	103.5	111.4
80.0	90.8	95.4	101.0	103.8	105.0	104.5	102.5	110.8
85.0	89.8	95.3	100.5	103.1	104.5	104.0	102.0	110.2
90.0	89.3	94.8	99.5	101.8	104.0	103.5	101.0	109.4
95.0	88.4	94.3	99.2	101.6	103.5	103.0	101.0	109.1
100.0	88.3	93.8	98.8	101.5	103.5	103.0	100.5	108.9
105.0	87.4	93.4	98.7	101.6	103.5	103.0	100.0	108.9
110.0	86.7	92.9	98.2	101.2	103.5	102.5	100.0	108.6
115.0	86.3	92.0	98.0	101.2	103.0	102.5	99.5	108.3

MODEL THRUST = 100.719 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 35.5	BAND 71.0	SOUND 141.9	PRESSURE 283.9	LEVELS 567.7	1135.4	2235.4	4470.8	8870.5	17741.1	35482.2
8795.0	93.9	83.4	83.8	74.98	79.98	74.35	69.48	60.54	43.12	14.93	-35.27	-117.58	-240.35
4305.7	87.2	87.1	86.6	76.69	82.30	82.15	77.82	72.49	64.66	50.43	28.07	-10.35	-73.35
3549.3	90.0	89.7	88.5	76.81	83.55	84.45	80.05	75.13	69.01	57.33	38.66	7.00	-44.56
3000.0	93.6	93.2	90.8	77.02	84.20	87.28	83.84	79.69	73.59	63.17	46.92	19.69	-24.35
2615.2	95.7	95.2	92.0	76.33	83.67	88.37	86.45	81.59	76.07	67.10	52.55	28.43	-10.35
2333.6	97.1	96.5	92.8	75.03	83.08	88.64	86.17	81.60	77.75	69.07	55.77	33.92	-1.00
2121.3	97.9	97.2	92.9	73.60	81.46	87.49	85.86	80.73	76.47	70.87	64.50	38.37	6.35
1954.1	98.1	97.3	92.7	72.36	80.02	86.34	84.54	80.73	76.69	72.69	61.04	42.23	12.44
1831.2	97.9	96.9	91.9	71.36	78.46	85.02	83.18	80.27	76.47	72.69	61.04	42.23	12.44
1732.1	97.8	96.6	91.2	71.65	78.09	83.92	82.07	80.07	76.47	72.69	61.04	42.23	12.44
1655.1	97.9	96.6	90.8	71.43	77.38	83.08	81.26	80.07	76.47	72.69	61.04	42.23	12.44
1596.3	98.0	96.6	90.6	71.42	77.35	82.36	80.79	79.51	76.47	72.69	61.04	42.23	12.44
1552.4	97.6	96.2	89.7	71.21	76.33	81.43	80.72	79.28	76.47	72.69	61.04	42.23	12.44
1523.1	97.0	95.6	89.3	70.65	76.22	80.74	80.16	78.58	76.47	72.69	61.04	42.23	12.44
1505.7	96.7	95.2	88.8	69.82	75.28	80.39	80.27	78.66	76.47	72.69	61.04	42.23	12.44
1500.0	95.8	94.3	88.0	69.28	74.74	79.39	81.46	83.10	81.13	79.43	65.41	50.69	27.17
1500.7	95.6	94.1	87.7	69.39	74.28	79.07	81.51	82.56	80.62	78.38	65.73	50.57	26.97
1523.1	95.1	93.6	87.4	68.20	73.63	78.57	81.08	82.45	80.49	78.74	65.02	49.72	25.88
1542.9	94.9	93.1	87.2	67.15	73.07	78.24	80.99	82.26	80.78	79.47	64.71	48.57	24.33
1596.3	94.0	92.6	86.6	66.14	72.33	77.40	80.37	82.00	79.43	78.57	63.52	47.63	22.79
1655.1	93.1	91.6	86.0	65.41	71.13	77.09	80.04	81.16	79.02	77.51	62.20	45.84	20.19

RUN NUMBER	= 504.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 531.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.244
AREA RATIO	= 1.000
VELOCITY RATIO	= .938
PRIMARY VELOCITY (FT/SEC)	= 666.148
MASS FLOW RATIO	= 1.592
PRIMARY MASS FLOW (LR/SEC)	= .123
THRUST (LBS)	= 6.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.430
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/50 CM)	= .009
INSTRUMENTATION NOISE FLOOR (DB)	= 48.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.19683E-01	120.8	THRUST	POWER LEVEL (DB)
500	1.77972E-03	102.5	10000	151.7
1000	8.94725E-03	109.5	20000	154.8
2000	2.72095E-02	114.3	40000	157.8
4000	3.61667E-02	115.6	80000	160.8
8000	3.19465E-02	115.0		
16000	9.86507E-03	109.9		
31500	3.76741E-03	105.8		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	81.8	89.2	92.4	89.3	86.3	75.5	69.3	96.0
20.0	81.5	88.2	92.3	90.3	87.3	77.0	70.7	96.2
25.0	79.3	86.6	91.2	90.8	88.1	78.4	72.4	95.8
30.0	77.8	85.9	90.3	90.6	88.4	80.2	74.3	95.4
35.0	76.3	83.6	88.9	90.1	88.7	81.6	76.0	94.8
40.0	74.6	82.0	87.6	89.2	88.4	82.4	77.2	94.0
45.0	72.7	80.3	85.4	88.2	87.4	82.8	78.4	93.0
50.0	72.2	79.3	84.9	87.4	86.9	82.6	78.5	92.3
55.0	70.7	78.0	83.6	86.6	86.2	82.2	78.0	91.5
60.0	70.9	77.7	83.3	86.1	85.8	81.7	77.7	91.1
65.0	70.7	77.0	82.6	85.5	85.9	81.5	77.4	90.7
70.0	70.3	76.7	82.0	84.9	85.3	80.9	77.1	90.2
75.0	69.6	76.2	81.4	84.2	84.4	80.5	76.6	89.4
80.0	69.0	75.4	80.8	83.6	84.2	80.1	76.5	89.0
85.0	69.2	75.4	81.1	83.6	84.2	79.9	76.5	89.1
90.0	69.2	75.1	80.2	82.8	84.3	79.5	75.9	88.7
95.0	69.1	74.5	79.9	82.3	84.0	79.0	74.4	88.2
100.0	68.3	74.8	79.6	81.8	83.0	78.4	74.9	87.6
105.0	67.3	73.6	79.1	81.7	82.6	78.0	74.4	87.2
110.0	66.8	72.8	78.5	81.5	82.2	77.9	74.3	86.9
115.0	66.6	71.5	77.0	80.4	81.3	77.5	72.3	85.9

L.	PNDR.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS										
			10.0	20.0	40.0	80.0	160.0	320.0	630.0	1260.0	2500.0	5000.0	10000.0
5795.6	69.01 (88.3)	78.2	61.08	68.42	71.62	68.40	65.07	53.23	44.48	35.06	18.05	-13.42	-68.43
4385.7	73.27 (72.1)	77.8	63.15	69.86	73.83	71.40	68.45	57.53	49.34	41.48	27.87	3.33	-39.03
3549.3	76.71 (74.9)	79.2	62.48	70.16	74.70	74.27	71.33	61.40	53.78	46.85	38.26	14.83	-20.02
3060.0	78.51 (76.9)	80.3	62.80	70.90	75.30	75.54	73.12	64.45	57.14	50.81	40.54	22.82	-7.10
2615.7	80.41 (78.4)	80.9	62.52	69.75	75.10	76.26	74.71	67.12	60.31	54.41	45.09	29.24	2.77
2333.6	81.67 (79.7)	81.1	61.96	69.16	74.75	76.32	75.34	68.33	62.75	57.16	48.82	34.05	10.12
2121.3	82.11 (79.4)	80.9	60.73	68.26	73.89	76.16	75.24	70.25	64.90	59.55	51.42	38.00	15.96
1958.1	82.61 (79.6)	80.9	60.87	67.99	73.55	76.06	75.39	70.83	65.79	60.62	52.86	40.27	19.49
1831.2	82.61 (79.5)	80.7	60.00	67.28	72.92	75.86	75.14	70.99	65.98	60.95	53.43	41.53	22.10
1732.1	82.61 (79.6)	80.7	60.71	67.44	73.03	75.86	75.39	70.97	66.29	61.37	54.18	42.67	24.13
1665.1	83.11 (79.9)	80.8	60.88	67.11	72.74	75.61	75.92	71.25	66.39	61.56	54.54	47.43	25.57
1594.3	83.01 (79.7)	80.6	60.73	67.13	72.84	75.33	75.67	71.01	66.44	61.71	54.85	48.01	26.60
1552.9	82.71 (79.3)	80.2	60.35	66.94	72.12	74.90	75.17	70.81	66.19	61.47	54.71	48.09	27.15
1523.1	82.41 (78.9)	79.8	59.86	66.24	71.72	74.46	74.93	70.50	66.28	61.59	54.91	48.43	27.76
1505.7	82.41 (79.1)	80.0	60.23	66.14	72.03	74.59	75.00	70.44	66.39	61.73	55.09	48.49	28.18
1500.0	82.31 (78.9)	79.6	60.26	66.16	71.15	73.82	75.19	70.14	66.83	61.16	54.54	48.17	27.71
1505.7	81.01 (78.4)	79.1	60.10	65.53	70.85	73.23	74.82	69.63	65.36	60.49	54.05	47.64	27.14
1523.1	80.41 (77.6)	78.4	60.16	65.66	70.67	72.65	73.74	69.40	65.88	60.99	53.31	47.41	26.16
1552.9	80.21 (76.8)	77.4	58.72	64.29	69.80	72.41	73.14	68.31	64.01	59.29	52.43	41.90	24.97
1594.3	79.01 (76.1)	77.1	57.37	63.24	68.93	71.92	72.51	67.99	63.61	58.84	51.08	41.14	21.82
1655.1	77.91 (74.7)	75.0	56.78	61.71	67.12	70.51	71.33	67.23	63.29	58.45	49.65	38.22	20.67

RUN NUMBER	505.00 (765.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-4.140
PRIMARY TEMPERATURE (IN)	528.000
SECONDARY TEMPERATURE (IN)	527.000
PRIMARY PRESSURE RATIO	1.519
AREA RATIO	2.007
VELOCITY RATIO	0.364
PRIMARY VELOCITY (FT/SEC)	847.055
MASS FLOW RATIO	1.043
PRIMARY MASS FLOW (LB/SEC)	2.217
THRUST (LBS)	9.000
ENVIRONMENTAL TEMPERATURE (TR)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.430
ENVIRONMENTAL HUMIDITY (PER CENT)	64.000
CALIBRATION FACTOR (MV TO DY/50 CM)	0.009
INSTRUMENTATION NOISE FLOOR (DB)	48.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.77984E-01	123.0	THRUST	POWER LEVEL (DB)
500	7.72333E-04	98.9	10000	156.0
1000	4.58108E-03	106.6	20000	159.0
2000	2.47837E-02	113.9	40000	162.0
4000	9.19359E-02	119.6	80000	165.0
8000	6.03014E-02	117.8		
16000	1.13638E-02	110.6		
31500	4.24557E-03	106.3		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVERALL
								ALL
15.0	77.3	85.7	90.9	91.8	88.7	78.7	73.1	96.0
20.0	78.4	85.1	91.0	92.3	89.6	80.5	75.6	98.5
25.0	75.2	83.7	90.1	92.0	90.2	81.9	76.4	96.1
30.0	73.2	82.2	88.4	91.8	89.7	83.1	77.9	95.9
35.0	72.2	80.8	86.8	91.2	89.2	84.7	76.6	95.0
40.0	69.8	78.2	85.6	90.8	87.6	84.6	76.1	94.1
45.0	69.1	76.8	84.5	91.0	87.0	84.1	76.9	94.5
50.0	68.3	75.3	83.0	91.2	86.3	83.7	76.4	94.6
55.0	68.0	74.5	83.2	90.6	86.2	82.9	76.0	94.6
60.0	68.1	74.5	83.5	91.0	86.0	82.1	76.0	94.6
65.0	67.0	74.5	83.0	90.6	85.9	81.7	77.8	93.9
70.0	66.6	74.4	83.1	90.6	85.0	81.4	77.5	93.8
75.0	66.3	74.9	82.2	90.3	84.7	80.3	76.2	93.4
80.0	67.8	74.4	82.0	90.0	87.8	79.8	75.8	92.9
85.0	67.1	74.3	82.7	90.0	86.8	79.2	75.3	93.2
90.0	67.1	74.2	83.0	88.4	86.5	78.1	74.7	92.4
95.0	66.6	73.1	83.2	88.4	87.4	77.9	74.4	91.9
100.0	65.7	72.7	82.6	88.0	86.1	77.1	73.8	91.7
105.0	65.2	71.7	82.0	88.0	86.0	76.4	73.1	91.6
110.0	64.4	70.4	80.2	88.0	85.0	76.4	72.8	90.5
115.0	64.1	69.7	78.2	86.1	83.8	75.6	72.0	89.9

MODEL THRUST = 5.000 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	7.0	OCTAVE 15.0	BAND 31.6	SOUND 63.2	PRESSURE 126.5	LEVELS 251.0	498.1	996.1	1976.1	3952.8	7905.7
8795.5	72.11	71.07	72.2	80.80	86.99	72.18	73.33	89.71	88.48	37.67	82.84	24.84	8.15
4348.7	70.61	75.11	80.1	60.13	48.86	74.78	76.37	73.11	63.50	54.97	59.34	39.16	18.46
3544.3	70.51	77.71	81.4	60.78	60.77	75.41	77.56	75.56	66.82	66.17	66.23	44.41	27.71
3000.0	81.41	79.21	82.5	60.20	60.25	75.61	78.74	76.52	69.41	62.44	51.11	40.38	26.61
2619.2	83.11	80.41	83.1	60.40	68.09	76.03	79.74	77.25	72.67	64.48	61.31	53.43	40.19
2311.6	84.01	81.01	83.5	58.99	67.67	76.74	79.94	77.59	73.35	66.18	63.21	55.45	42.72
2121.1	84.77	82.81	85.3	58.16	67.11	76.11	79.11	77.11	73.11	66.17	63.17	56.18	45.14
1988.1	84.81	82.81	85.1	58.00	66.63	76.11	79.11	77.11	73.11	66.17	63.17	56.18	45.14
1831.2	86.31	83.11	85.3	58.24	65.40	76.53	81.40	80.46	73.87	63.37	60.74	50.32	41.24
1732.1	86.51	83.41	85.8	58.92	66.24	76.24	82.74	80.68	73.54	64.43	60.90	50.27	40.44
1645.7	87.01	83.81	86.0	60.00	66.44	75.15	82.40	81.37	74.41	63.28	60.43	50.74	40.74
1566.3	87.11	84.01	86.2	61.07	68.41	75.41	83.58	81.63	73.61	64.23	60.44	50.40	40.65
1552.9	86.77	83.71	86.1	61.01	67.41	75.42	83.07	81.15	72.42	64.17	60.47	50.47	40.65
1523.1	86.31	83.21	85.8	60.72	67.40	74.38	82.93	80.86	72.45	63.47	60.47	50.47	40.65
1505.7	86.71	83.81	86.2	60.17	67.34	75.71	82.88	81.73	71.87	62.45	60.45	50.45	40.65
1500.4	86.11	83.21	85.4	60.20	67.61	76.61	81.44	81.51	74.42	63.44	60.45	50.45	40.74
1505.7	85.61	82.61	84.9	59.86	66.16	76.61	81.74	80.73	76.44	66.46	62.61	50.46	40.74
1523.1	86.41	81.61	86.6	58.44	66.44	75.44	81.47	74.04	64.14	64.14	61.51	50.47	40.74
1552.9	83.91	80.91	84.3	60.02	66.41	74.71	81.71	78.71	64.17	64.17	61.51	50.47	40.74
1546.1	82.61	79.51	83.0	60.87	67.41	72.36	80.48	77.34	64.13	64.13	61.51	50.47	40.74
1555.1	80.91	77.91	81.0	59.32	61.45	70.34	79.02	67.37	63.36	54.97	52.09	43.61	34.16

RUN NUMBER	506.00 (766.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (IN)	526.000
SECONDARY TEMPERATURE (IN)	527.000
PRIMARY PRESSURE RATIO	1.246
AREA RATIO	2.007
VELOCITY RATIO	.939
PRIMARY VELOCITY (FT/SEC)	663.004
MASS FLOW RATIO	2.234
PRIMARY MASS FLOW (LB/SEC)	.192
THRUST (LBS)	9.000
ENVIRONMENTAL TEMPERATURE (R)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.430
ENVIRONMENTAL HUMIDITY (PER CENT)	64.000
CALIBRATION FACTOR (INV TO DY/50 CM)	.014
INSTRUMENTATION NOISE FLOOR (DB)	52.624

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL (SCALED FOR THRUST)	
OVERALL	1.22743E-01	120.9	THRUST	POWER LEVEL (DB)
500	1.82371E-03	102.1	10000	151.3
1000	7.97018E-03	109.0	20000	154.4
2000	2.25712E-02	113.5	40000	157.4
4000	3.30692E-02	115.2	80000	160.4
8000	3.52754E-02	115.5		
16000	1.58441E-02	112.0		
31500	6.38772E-03	108.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	OVER
		1000	2000	4000	8000	16000	ALL
15.0	81.0	88.6	91.8	88.9	86.7	80.8	95.8
20.0	80.0	87.9	91.6	90.3	88.1	82.7	96.2
25.0	78.7	86.6	91.0	91.1	89.2	84.2	96.3
30.0	76.4	84.3	89.1	91.1	90.4	85.9	96.1
35.0	74.2	81.9	87.3	89.4	90.0	86.4	95.0
40.0	72.5	80.5	85.9	88.4	89.2	86.0	94.1
45.0	70.8	78.5	84.1	87.4	88.1	85.2	93.0
50.0	71.0	77.5	83.2	86.2	87.2	84.3	92.0
55.0	70.7	77.4	82.6	85.8	87.1	84.3	91.8
60.0	71.2	76.9	82.2	85.2	86.6	83.7	91.3
65.0	71.7	77.1	82.1	84.8	86.0	82.8	90.8
70.0	71.5	77.2	81.8	84.4	85.4	82.2	90.3
75.0	71.7	76.7	81.3	84.2	84.9	81.4	90.0
80.0	71.6	76.9	81.1	84.0	84.6	81.0	89.6
85.0	70.7	76.3	80.5	83.0	83.5	80.3	88.7
90.0	70.5	75.9	79.9	82.6	83.3	79.6	88.3
95.0	69.7	75.0	79.8	81.7	82.6	79.0	87.7
100.0	68.9	74.9	79.5	81.7	82.2	79.0	87.5
105.0	68.4	73.9	79.0	81.4	81.7	78.5	87.0
110.0	67.9	73.5	78.4	81.0	80.9	77.9	86.4
115.0	67.4	72.2	76.9	80.0	80.5	77.2	85.4

MODEL THRUST = 9.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS
			10.0	21.2	42.4	84.9	169.7
5795.6	70.4 (60.2)	74.3	59.76	67.38	70.90	67.90	64.91
4385.7	74.9 (73.5)	77.2	61.22	69.10	72.76	71.41	68.86
3549.3	78.4 (76.6)	79.1	61.73	69.57	74.01	74.03	71.92
3000.0	81.3 (79.2)	80.4	60.90	68.76	73.61	75.49	74.80
2615.7	82.4 (79.9)	80.4	59.87	67.62	72.93	75.04	75.38
2333.4	83.1 (80.3)	80.6	59.13	67.19	72.61	74.99	75.68
2121.3	83.2 (80.2)	80.3	58.35	66.62	71.55	74.85	75.44
1958.1	83.1 (80.0)	80.0	59.22	65.65	71.33	74.35	75.22
1831.2	83.9 (80.6)	80.4	59.44	66.14	71.33	74.52	75.71
1732.1	83.9 (80.5)	80.4	60.45	66.17	71.48	74.41	75.67
1655.1	83.5 (80.2)	80.3	61.35	66.75	71.71	74.38	75.51
1596.3	83.5 (80.1)	80.2	61.50	67.15	71.79	74.33	75.27
1552.9	83.5 (80.0)	80.1	61.90	66.93	71.77	74.36	74.95
1523.1	82.9 (79.5)	79.9	61.74	67.29	71.45	74.35	74.85
1505.7	82.2 (78.8)	79.1	61.14	66.81	70.95	73.44	73.83
1500.0	81.8 (78.3)	78.7	60.99	66.43	70.40	73.71	73.71
1504.7	81.1 (77.6)	78.1	60.19	65.52	70.30	72.17	72.96
1523.1	80.9 (77.3)	77.8	59.74	65.30	69.48	72.01	72.38
1552.9	83.1 (78.6)	77.1	58.81	64.14	68.16	71.45	71.78
1596.3	79.1 (75.5)	76.3	57.89	63.90	68.12	70.95	70.73
1655.1	78.9 (73.9)	74.9	57.07	61.86	66.57	69.59	69.98

RUN NUMBER	= 511.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (°F)	= 523.000
SECONDARY TEMPERATURE (°F)	= 523.000
PRIMARY PRESSURE RATIO	= 1.519
AREA RATIO	= 4.856
VELOCITY RATIO	= 3.66
PRIMARY VELOCITY (FT/SEC)	= 843.035
MASS FLOW RATIO	= 2.051
PRIMARY MASS FLOW (LB/SEC)	= 218
THRUST (LBS)	= 12.000
ENVIRONMENTAL TEMPERATURE (°F)	= 518.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.310
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.500
CALIBRATION FACTOR (MV TO DY/50 CM)	= .006
INSTRUMENTATION NOISE FLOOR (DB)	= 44.543

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	7.04480E-02	118.5	THRUST	POWER LEVEL (DB)
500	8.53819E-04	99.3	10000	147.7
1000	4.32829E-03	106.4	20000	150.7
2000	1.65157E-02	112.2	40000	153.7
4000	2.97167E-02	114.7	80000	156.7
8000	1.33500E-02	111.3		
16000	3.88282E-03	105.9		
31500	1.79873E-03	102.5		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	74.1	84.7	87.9	86.0	79.6	68.2	66.5	91.6
20.0	76.2	83.6	87.7	85.8	80.0	69.8	67.3	91.6
25.0	76.0	83.1	87.6	87.2	81.1	72.3	68.6	91.7
30.0	74.9	81.9	86.8	87.0	82.6	75.3	70.7	91.4
35.0	73.0	80.5	85.8	87.0	83.6	77.7	72.5	91.2
40.0	71.9	79.3	84.7	86.3	83.7	78.7	73.7	90.6
45.0	70.6	77.3	83.1	86.3	84.0	79.0	74.4	90.2
50.0	69.9	76.2	82.0	86.1	84.1	79.2	75.1	90.1
55.0	69.0	75.0	81.8	85.8	83.0	78.2	74.8	89.4
60.0	68.2	74.3	81.5	85.8	82.9	77.8	74.8	89.2
65.0	68.1	74.2	81.4	85.9	82.8	77.6	74.4	89.2
70.0	68.0	74.3	81.1	85.8	82.3	77.4	74.2	89.0
75.0	68.2	74.6	81.1	85.8	82.1	76.8	73.9	88.9
80.0	68.1	74.7	81.0	85.3	81.2	76.4	73.6	88.4
85.0	67.7	74.4	81.6	84.9	81.6	75.9	73.5	88.4
90.0	67.3	73.8	81.8	83.5	81.4	75.3	72.6	87.7
95.0	66.7	73.7	81.5	83.2	80.1	74.8	71.9	87.2
100.0	66.5	72.9	81.1	83.8	79.2	74.3	71.4	87.1
105.0	65.6	71.9	79.5	83.6	78.9	73.4	70.8	86.5
110.0	65.1	70.9	78.6	82.8	78.0	73.1	70.5	85.7
115.0	64.4	70.0	76.7	80.9	76.9	72.3	69.9	84.1

MODEL THRUST = 12.000 FULL SCALE THRUST = 20000.000

L.	PND.B.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS										
			12.2	25.5	49.0	98.0	196.0	391.9	771.6	1543.2	3061.9	6123.7	12247.4
3795.0	62.11	61.31	68.9	51.63	62.25	65.35	63.28	58.39	43.69	38.59	27.40	7.03	-30.28
4385.7	66.31	65.21	71.5	56.17	63.56	67.60	66.61	59.42	48.19	43.08	33.88	17.73	-11.23
3549.3	69.61	68.21	73.4	57.82	64.84	69.31	68.80	62.47	52.83	47.02	39.00	25.36	1.35
3080.0	72.41	70.01	74.5	58.13	65.18	70.01	70.13	65.48	57.43	51.14	43.90	31.91	11.15
2615.2	74.97	73.01	75.5	57.42	64.91	70.21	71.30	67.73	61.22	54.42	47.72	36.89	18.40
2333.6	76.41	74.31	75.9	57.37	64.76	70.06	71.66	68.87	63.25	56.94	50.65	40.65	23.84
2121.3	77.71	75.31	76.3	58.81	65.56	69.78	72.88	70.02	64.54	58.70	52.70	43.34	27.78
1958.1	78.71	76.11	76.8	58.81	63.13	69.54	73.01	70.78	65.41	60.22	54.45	45.58	30.99
1831.2	78.71	75.91	76.8	58.49	62.56	69.31	73.25	70.35	65.08	60.63	55.04	46.55	32.71
1732.1	79.11	76.21	77.1	58.25	62.33	69.46	73.71	70.65	65.16	61.21	55.76	47.57	34.31
1655.1	79.51	76.51	77.5	58.55	62.62	69.83	74.21	70.97	65.40	61.29	55.95	47.99	35.20
1596.3	79.51	76.51	77.6	58.67	62.99	69.77	74.48	70.78	65.55	61.43	56.17	48.39	35.94
1552.4	79.61	76.61	77.8	57.19	63.57	70.06	74.74	70.86	65.23	61.38	56.19	48.51	36.34
1523.1	79.21	76.11	77.4	57.27	63.79	70.07	74.33	70.14	64.95	61.33	56.17	48.61	36.59
1505.7	79.41	76.31	77.5	58.08	63.64	70.92	74.07	70.61	64.57	61.27	56.14	48.63	36.72
1500.0	78.41	75.01	76.9	58.60	63.07	71.05	72.72	70.44	63.98	60.49	55.37	47.87	35.99
1505.7	77.81	74.81	76.3	55.92	62.87	70.73	72.37	69.11	63.45	59.76	54.63	47.12	35.20
1523.1	77.21	74.11	76.2	55.59	61.94	70.18	72.89	68.17	62.90	59.11	53.96	46.39	34.37
1552.9	76.41	73.31	75.4	54.57	60.83	68.47	72.51	67.88	61.81	58.34	53.15	45.49	33.38
1596.3	75.31	72.21	74.3	53.80	59.61	67.26	71.43	66.53	61.25	57.70	52.45	44.66	32.21
1655.1	73.71	70.51	72.4	52.78	58.37	65.13	69.26	65.10	60.12	56.70	51.36	43.60	30.60

RUN NUMBER	512.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (IN)	523.000
SECONDARY TEMPERATURE (IN)	525.000
PRIMARY PRESSURE RATIO	1.246
AREA RATIO	4.856
VELOCITY RATIO	.940
PRIMARY VELOCITY (FT/SEC)	661.111
MASS FLOW RATIO	4.416
PRIMARY MASS FLOW (LB/SEC)	1.193
THRUST (LBS)	24.500
ENVIRONMENTAL TEMPERATURE (IN)	518.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.310
ENVIRONMENTAL HUMIDITY (PER CENT)	69.500
CALIBRATION FACTOR (MV TO DY/50 CM)	.010
INSTRUMENTATION NOISE FLOOR (DB)	40.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.53191E-01	121.9	THRUST	POWER LEVEL (DB)
500	6.62307E-03	108.2	10000	148.0
1000	2.29912E-02	113.6	20000	151.0
2000	4.09213E-02	116.7	40000	154.0
4000	3.90299E-02	115.9	80000	157.0
8000	2.50738E-02	114.2		
16000	1.20077E-02	110.8		
31500	5.53372E-03	107.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	OCTAVE BAND 2000	OCTAVE BAND 4000	OCTAVE BAND 8000	OCTAVE BAND 16000	OCTAVE BAND 31500	OVERALL
15.0	87.0	92.1	91.3	86.5	80.8	74.0	70.3	96.1
20.0	86.6	92.4	93.0	88.7	82.6	75.4	72.1	97.1
25.0	85.5	91.4	92.9	90.0	84.1	77.3	73.9	97.0
30.0	84.0	89.9	91.9	90.8	86.2	79.9	76.0	96.6
35.0	81.9	88.0	91.0	90.8	87.8	82.0	77.4	96.1
40.0	80.1	86.4	89.7	89.9	87.9	83.1	78.6	95.2
45.0	78.6	84.5	88.0	88.3	86.6	82.9	78.9	93.8
50.0	77.4	82.8	86.8	87.5	86.2	82.8	78.8	93.0
55.0	76.5	81.7	85.7	86.5	85.7	82.4	78.5	92.1
60.0	76.5	81.2	84.9	86.1	85.1	82.0	78.4	91.6
65.0	76.2	81.0	84.3	85.4	84.8	81.6	77.9	91.1
70.0	76.1	80.4	84.4	85.5	84.7	81.7	78.3	91.1
75.0	76.4	80.0	84.1	84.9	84.5	81.8	78.5	90.8
80.0	75.8	80.2	83.5	84.9	84.2	81.8	78.3	90.7
85.0	75.4	79.5	83.3	84.5	83.7	81.3	78.1	90.2
90.0	75.4	79.9	83.3	84.3	83.5	81.1	78.0	90.1
95.0	74.7	78.6	82.9	83.9	83.4	81.0	78.0	89.8
100.0	74.0	78.7	82.3	83.7	83.0	80.8	77.8	89.5
105.0	73.0	78.0	82.2	83.4	82.6	80.3	77.6	89.1
110.0	72.2	77.2	81.6	82.7	82.2	80.2	77.4	88.6
115.0	72.4	76.2	81.1	82.2	81.5	79.2	76.7	88.0

MODEL THRUST = 24.500 FULL SCALE THRUST = 10000.000

L	PNDB	OASPL	OCTAVE BAND 24.7	OCTAVE BAND 49.5	OCTAVE BAND 99.0	OCTAVE BAND 198.0	OCTAVE BAND 396.0	OCTAVE BAND 792.0	OCTAVE BAND 1559.2	OCTAVE BAND 3118.3	OCTAVE BAND 6187.2	OCTAVE BAND 12374.4	OCTAVE BAND 24748.7
9795.0	62.21	62.07	67.3	58.44	63.44	62.50	57.19	49.88	39.78	27.91	7.06	-30.28	-94.62
4385.7	67.51	67.21	70.7	60.40	66.19	66.67	62.03	54.90	44.93	35.49	18.99	-10.00	-59.42
3549.3	71.11	70.51	72.4	61.14	67.07	68.39	65.28	58.49	49.54	41.12	27.19	3.16	-37.41
3000.0	73.91	73.11	73.4	61.17	67.04	68.93	67.61	62.23	54.12	45.97	33.74	12.96	-21.79
2615.2	75.71	74.81	74.0	60.17	66.31	69.27	68.77	65.13	57.73	49.47	38.42	19.92	-10.76
2333.4	76.91	75.81	74.1	59.41	65.72	68.89	68.97	66.36	60.10	52.33	42.14	25.32	-2.30
2121.3	76.91	75.61	73.4	58.74	64.54	68.32	68.17	65.48	61.00	54.00	44.67	28.90	3.45
1958.1	77.31	75.81	73.3	58.23	63.51	67.60	68.10	66.34	61.72	55.00	45.97	31.37	7.65
1831.2	77.41	75.81	73.0	57.95	63.13	67.63	67.72	66.44	62.02	55.55	46.91	33.06	10.68
1732.1	77.61	75.91	73.0	58.37	63.07	66.76	67.74	66.40	62.17	56.18	47.85	34.58	13.25
1655.1	77.81	75.91	72.9	58.50	63.26	66.58	67.46	66.45	62.24	56.22	48.12	35.31	14.80
1596.3	78.11	76.31	73.2	58.68	63.02	66.94	67.91	66.76	62.71	57.12	49.21	36.75	16.66
1552.4	78.21	76.31	73.2	59.25	62.91	66.95	67.91	66.75	63.69	57.44	49.86	37.66	18.22
1523.1	78.31	76.31	73.2	58.81	63.16	66.44	67.74	66.70	63.34	57.71	50.02	37.99	18.87
1505.7	78.01	76.01	72.9	58.55	62.61	66.34	67.47	66.25	62.99	57.67	50.03	38.11	19.17
1500.7	77.81	75.81	72.8	58.58	63.07	66.41	67.24	66.07	62.77	57.53	49.91	38.03	19.15
1505.7	77.61	75.61	72.4	57.78	61.73	65.94	66.84	65.96	62.67	57.49	49.85	37.93	18.99
1523.1	77.21	75.21	72.0	57.61	61.74	65.23	66.55	65.51	62.28	47.14	49.67	37.44	14.32
1552.4	76.41	74.41	71.8	59.83	62.79	64.22	66.44	64.94	61.68	55.73	48.95	36.74	17.31
1596.3	75.91	73.91	70.6	54.77	64.15	65.14	64.23	61.22	56.10	48.27	35.82	15.92	14.07
1655.1	74.71	72.71	69.7	54.67	62.90	63.71	64.73	63.18	59.89	55.62	46.92	34.11	13.60

RUN NUMBER	515.000
AIRIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (IN)	523.000
SECONDARY TEMPERATURE (IN)	528.000
PRIMARY PRESSURE RATIO	1.519
AREA RATIO	9.744
VELOCITY RATIO	0.367
PRIMARY VELOCITY (FT/SEC)	843.035
MASS FLOW RATIO	3.525
PRIMARY MASS FLOW (LB/SEC)	0.217
THRUST (LBS)	16.000
ENVIRONMENTAL TEMPERATURE (IN)	519.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.290
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	0.008
INSTRUMENTATION NOISE FLOOR (DB)	47.532

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST.	
OVERALL	5.81005E-02	117.6	THRUST	POWER LEVEL(DB)
500	7.88526E-03	109.0	10000	145.6
1000	4.91974E-03	106.9	20000	148.6
2000	1.46890E-02	111.7	40000	151.6
4000	1.66153E-02	112.2	80000	154.6
8000	8.71582E-03	109.4		
16000	3.59946E-03	105.6		
31500	1.57589E-03	102.2		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	79.8	85.7	88.6	85.8	79.0	70.8	67.3	92.2
20.0	78.7	84.6	88.5	86.1	80.3	72.8	68.7	92.1
25.0	77.0	83.8	88.0	87.2	82.4	75.4	70.8	92.3
30.0	77.0	82.7	87.3	87.2	83.9	77.4	72.3	92.1
35.0	75.6	81.3	85.9	86.5	84.1	79.0	74.1	91.4
40.0	73.9	79.5	84.9	85.8	84.0	79.6	75.1	90.7
45.0	73.4	78.3	83.5	84.9	83.3	79.4	75.4	89.8
50.0	70.0	75.0	82.7	84.3	82.7	79.0	75.2	88.8
55.0	69.6	76.8	81.8	83.7	81.7	78.6	75.1	88.3
60.0	69.0	76.1	81.1	82.9	81.0	77.9	74.7	87.7
65.0	71.0	75.4	80.6	82.3	80.0	77.2	74.2	87.1
70.0	70.9	75.3	79.9	81.6	79.2	76.6	73.6	86.4
75.0	70.7	74.9	79.5	81.3	78.4	75.6	72.7	85.9
80.0	70.8	75.2	79.1	80.9	77.8	75.0	72.7	85.5
85.0	69.2	74.9	79.4	80.0	76.8	74.1	71.9	85.0
90.0	68.0	74.3	79.0	79.1	76.4	73.3	71.3	84.4
95.0	68.7	73.6	78.9	79.1	75.6	72.6	70.6	84.1
100.0	68.7	72.8	78.3	78.9	74.9	71.9	69.9	83.6
105.0	67.9	71.5	77.1	78.6	74.5	71.1	69.3	82.9
110.0	66.3	70.9	76.1	77.6	73.6	70.7	68.7	81.9
115.0	66.8	69.7	74.7	76.1	72.9	70.1	67.8	80.8

MODEL THRUST = 16.000 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE 14.1	BAND 28.3	SOUND 56.6	PRESSURE 113.1	LEVELS 226.3	452.5	891.0	1781.9	3535.5	7071.1	14142.1
9999.0	61.91	61.21	60.3	58.10	61.94	64.78	61.76	94.38	44.53	36.98	24.28	1.14	-40.82 -111.50
4385.7	65.81	64.81	70.6	57.37	63.32	67.09	64.59	58.34	49.56	42.37	32.04	13.81	-18.68 -72.90
3349.3	69.71	68.51	72.8	58.32	64.28	68.50	67.68	62.35	54.35	47.23	38.30	22.97	-3.89 -48.34
2688.0	72.81	71.31	73.8	58.95	64.47	69.20	69.00	65.43	59.10	50.85	42.84	29.42	6.25 -31.79
2615.2	74.71	72.91	74.3	58.77	64.47	69.02	69.56	66.87	61.07	54.25	46.88	34.80	14.22 -19.33
2333.6	75.91	73.81	74.6	58.66	63.66	69.02	69.90	67.79	62.71	56.64	49.74	38.63	19.94 -10.31
2121.3	76.51	74.11	74.8	58.39	63.33	68.47	69.83	67.94	63.48	58.01	51.46	41.69	23.83 -3.94
1958.1	76.51	73.81	74.2	41.73	43.71	68.34	69.04	66.14	63.87	58.69	52.42	42.62	26.45 .59
1831.2	78.21	75.41	79.5	77.92	63.07	68.67	69.12	67.74	64.06	59.32	53.26	43.90	28.59 4.20
1732.1	76.91	73.91	74.3	58.33	62.84	67.93	69.60	67.46	63.94	59.50	53.61	44.59	29.95 6.72
1655.1	76.61	73.81	74.1	58.93	62.52	67.74	69.39	66.92	63.59	59.44	53.67	44.92	30.80 8.47
1596.3	76.31	73.21	73.7	58.41	62.77	67.30	69.04	66.43	63.38	59.24	53.57	45.83	31.29 9.65
1552.9	75.81	72.61	73.5	58.45	62.63	67.20	68.92	65.88	62.65	58.64	53.04	44.65	31.21 10.07
1523.1	75.61	72.31	73.3	58.72	63.06	66.93	68.68	65.41	62.25	58.84	53.30	45.00	31.76 10.98
1505.7	74.91	71.61	72.8	57.19	62.83	67.34	67.84	64.50	61.45	59.12	52.60	44.37	31.25 10.46
1508.0	74.31	70.91	72.2	56.41	62.25	66.97	67.04	64.15	60.68	57.45	52.04	43.83	30.75 10.23
1505.7	73.41	70.21	71.9	56.70	61.56	66.84	66.96	63.36	59.98	56.85	51.34	43.11	29.98 9.40
1523.1	72.81	69.41	71.3	56.60	60.44	66.12	66.73	62.58	59.06	56.02	50.48	42.19	28.95 8.16
1552.9	71.91	68.61	70.5	55.64	59.74	64.83	65.75	62.61	58.70	55.75	49.85	41.76	27.82 6.68
1496.3	70.91	67.51	69.3	53.74	59.40	63.51	64.95	60.83	57.43	54.35	48.68	40.13	26.40 4.76
1655.1	69.51	66.21	67.8	53.91	58.47	61.47	63.13	59.85	56.50	53.07	47.31	38.56	24.43 2.10

RUN NUMBER	516.000
AIRIAL POSITION OF PRIMARY WRY. SECONDARY (INS.)	6.100
PRIMARY TEMPERATURE (W)	532.000
SECONDARY TEMPERATURE (W)	534.000
PRIMARY PRESSURE RATIO	1.200
AREA RATIO	0.700
VELOCITY RATIO	0.900
PRIMARY VELOCITY (FT/SEC)	866.775
MASS FLOW RATIO	7.676
PRIMARY MASS FLOW (LB/SEC)	0.195
THRUST (LBS)	35.000
ENVIRONMENTAL TEMPERATURE (W)	519.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.290
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO OY/SQ CM)	0.010
INSTRUMENTATION NOISE FLOOR (DB)	54.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.20900E-01	123.6	THRUST	POWER LEVEL (DB)
300	1.74900E-02	112.4	10000	148.1
1000	3.45200E-02	115.4	20000	151.1
2000	5.98733E-02	117.8	40000	154.1
4000	5.53966E-02	117.4	80000	157.1
8000	5.54079E-02	115.5		
16000	1.66943E-02	112.2		
31500	7.14957E-03	108.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	300	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.2	93.0	91.7	87.2	81.8	77.4	74.6	97.2
20.0	89.4	92.7	92.8	88.2	83.6	79.3	76.6	97.5
25.0	88.5	92.5	93.3	90.8	86.6	82.1	78.6	98.1
30.0	86.9	91.0	92.9	91.8	88.9	84.6	80.2	98.0
35.0	85.1	89.9	92.4	91.5	89.1	85.0	80.7	97.6
40.0	84.1	88.5	91.3	91.4	89.3	85.3	81.1	97.0
45.0	77.0	82.6	90.8	90.7	88.6	85.2	81.1	95.8
50.0	82.2	86.9	89.9	90.1	88.2	85.3	81.6	95.8
55.0	81.5	85.4	88.6	89.1	87.7	84.9	81.0	94.8
60.0	89.4	85.5	88.4	88.8	87.5	84.6	80.9	95.6
65.0	80.9	84.3	87.4	88.0	86.6	83.7	80.0	93.7
70.0	80.0	83.6	85.7	87.7	86.4	83.3	79.8	93.3
75.0	79.6	83.2	86.3	86.9	85.2	82.3	78.8	92.5
80.0	79.5	83.1	85.8	86.5	84.8	81.7	78.2	92.1
85.0	70.8	82.6	85.2	85.7	84.4	81.5	78.0	91.6
90.0	77.9	81.5	84.9	85.1	83.8	80.8	77.5	91.0
95.0	77.3	81.4	84.4	85.0	83.6	80.5	77.0	90.7
100.0	76.3	80.9	84.0	84.3	82.9	80.1	76.8	90.2
105.0	75.9	80.0	83.5	84.1	82.1	79.2	76.4	89.6
110.0	75.1	79.4	82.6	83.5	82.0	79.2	76.0	89.1
115.0	75.4	78.5	82.4	82.7	81.3	78.7	76.0	88.5

MODEL THRUST = 35.000 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE 20.9	BAND 41.8	SOUND 83.7	PRESSURE 167.3	LEVELS 334.7	669.3	1317.7	2635.5	5229.1	10458.3	20916.5
9799.4	64.31	63.91	69.9	63.08	65.83	64.44	59.58	53.09	45.82	38.35	18.40	-14.05	-70.94
4385.7	68.81	68.11	72.6	64.69	67.46	67.37	63.06	57.69	51.18	43.42	29.11	3.83	-39.95
3949.3	73.3	72.71	75.0	65.58	69.61	70.33	67.62	62.72	56.48	48.92	36.77	15.73	-20.27
3000.0	76.71	75.71	76.3	65.44	69.58	71.39	70.10	66.65	60.89	52.97	42.24	23.99	-6.90
2615.2	78.31	77.11	77.0	64.89	69.49	72.10	71.01	68.16	62.76	55.40	45.66	29.37	2.05
2333.6	79.61	78.21	77.4	64.83	69.30	72.05	71.97	69.46	64.26	57.40	48.38	33.53	8.83
2121.3	79.81	78.11	77.0	64.55	64.20	72.17	72.07	69.62	65.28	58.44	50.17	36.39	13.67
1950.1	80.71	78.91	77.7	64.53	69.21	72.14	72.25	69.92	66.08	60.09	52.05	39.10	17.49
1831.2	80.81	78.91	77.3	64.36	68.22	71.43	71.81	70.06	66.39	60.36	52.64	40.33	20.31
1732.1	81.51	79.61	78.7	72.76	68.83	71.71	72.00	70.41	66.64	60.92	53.45	41.65	22.55
1655.1	80.81	78.71	77.2	64.70	68.01	71.10	71.60	69.92	66.14	60.60	53.33	41.92	23.53
1596.1	80.81	78.71	77.0	64.06	67.70	70.77	71.54	70.02	66.13	62.76	53.65	42.54	24.69
1552.9	80.11	70.01	76.5	63.98	67.50	70.57	71.32	69.87	65.37	60.10	53.09	42.20	24.76
1523.1	79.81	77.71	76.3	64.07	67.55	70.19	70.79	68.81	64.95	59.70	52.77	42.03	24.87
1505.7	79.51	77.31	75.8	63.41	67.18	69.70	70.11	68.51	64.84	59.67	52.19	42.14	25.14
1500.0	78.91	76.71	75.3	62.50	66.11	69.42	69.54	67.00	64.25	59.21	52.34	41.72	24.77
1505.7	78.61	76.41	74.9	61.86	65.34	68.90	69.41	67.71	63.91	59.63	51.74	41.09	24.09
1523.1	77.91	75.71	74.3	60.75	64.41	64.46	68.44	67.00	63.37	54.31	51.38	40.44	23.48
1552.9	77.01	74.81	73.6	60.21	64.11	67.76	68.26	66.02	62.26	57.70	50.69	40.60	22.36
1596.1	74.61	74.21	72.8	59.20	63.48	66.41	67.14	65.62	61.94	54.97	44.95	38.74	20.90
1655.1	75.51	73.31	71.9	59.15	62.24	66.15	66.28	64.64	61.14	54.54	49.27	37.86	19.47

RUN NUMBER	519.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (M)	536.000
SECONDARY TEMPERATURE (M)	536.000
PRIMARY PRESSURE RATIO	2.226
AREA RATIO	1.000
VELOCITY RATIO	1.400
PRIMARY VELOCITY (FT/SEC)	1149.357
MASS FLOW RATIO	0.690
PRIMARY MASS FLOW (LB/SEC)	0.333
THRUST (LBS)	18.500
ENVIRONMENTAL TEMPERATURE (R)	519.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.290
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	0.028
INSTRUMENTATION NOISE FLOOR (DB)	58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.88205E+00	132.7	THRUST	POWER LEVEL (DB)
			10000	160.1
500	5.48848E-03	107.4	20000	163.1
1000	3.91443E-02	115.9	40000	166.1
2000	2.17471E-01	123.4	80000	169.1
4000	5.24520E-01	127.2		
8000	5.99788E-01	127.8		
16000	3.45734E-01	125.4		
31500	1.49927E-01	121.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	86.2	95.3	101.0	101.2	98.3	92.9	87.2	105.9
20.0	85.6	94.9	101.8	102.4	99.3	93.9	88.6	106.7
25.0	84.4	93.6	101.3	102.8	100.2	95.1	90.2	107.0
30.0	82.9	92.0	100.0	102.6	100.5	95.7	90.7	106.6
35.0	81.4	90.5	98.6	101.8	100.7	96.0	92.0	106.1
40.0	79.7	88.5	97.1	101.2	101.0	96.7	92.3	105.8
45.0	78.1	86.5	95.0	99.8	101.4	98.3	93.7	105.6
50.0	76.8	85.2	92.8	98.6	100.6	98.1	94.0	104.7
55.0	76.4	84.3	91.7	98.3	100.1	98.3	94.4	104.5
60.0	75.5	83.4	91.3	97.5	99.1	97.6	94.2	103.8
65.0	75.5	83.2	90.6	96.9	97.9	96.3	93.2	102.7
70.0	75.3	82.8	90.0	96.3	97.8	95.7	92.7	102.2
75.0	75.3	82.7	89.3	95.4	97.0	95.3	92.6	101.7
80.0	74.8	82.2	88.9	95.0	96.4	94.5	91.9	101.1
85.0	74.4	82.3	88.6	95.1	96.8	94.7	91.8	101.3
90.0	74.1	81.5	88.3	94.1	96.2	94.4	91.7	100.7
95.0	74.1	80.9	88.4	93.2	96.4	94.6	91.6	100.7
100.0	73.1	80.3	88.0	93.5	96.2	95.0	91.4	100.7
105.0	72.8	79.6	86.9	92.5	94.1	94.6	91.1	100.4
110.0	71.6	78.2	85.9	92.9	95.3	95.4	90.7	100.2
115.0	71.6	77.5	84.3	91.5	93.5	94.2	90.3	98.9

MODEL THRUST = 18.500 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 15.2	BAND 30.4	SOUND 60.8	PRESSURE 121.7	LEVELS 243.3	486.6	958.0	1916.1	3831.7	7663.5	15206.9
3995.0	80.91 (79.8)	81.1	61.80	70.87	70.55	70.57	72.95	85.68	95.48	41.98	17.28	-27.20	-101.48
4385.7	84.71 (83.8)	84.4	63.67	72.91	79.75	80.18	76.61	69.78	61.15	50.20	30.81	-3.58	-60.53
3549.3	87.81 (86.6)	86.5	64.34	73.49	81.16	82.48	79.45	73.27	65.58	56.14	39.88	11.45	-35.18
3000.0	89.71 (88.3)	87.6	64.27	73.31	81.29	83.82	81.35	75.56	68.23	59.79	45.58	21.11	-10.79
2615.2	91.31 (89.6)	88.3	63.93	73.09	81.11	84.21	82.83	77.30	71.20	63.46	50.68	28.97	-6.20
2333.6	92.61 (90.6)	88.9	63.19	71.99	80.55	84.58	84.14	79.14	72.90	65.67	53.95	34.25	2.54
2121.3	94.11 (91.8)	89.5	62.49	70.85	79.34	84.36	85.46	81.59	75.42	68.58	57.65	39.47	10.37
1958.1	94.31 (91.7)	89.3	61.87	70.22	77.40	83.51	85.29	82.18	76.62	70.06	59.75	42.73	15.65
1831.7	94.91 (92.0)	89.7	62.09	69.49	77.36	83.82	85.46	83.01	77.72	71.40	61.56	45.45	19.93
1732.1	94.81 (91.8)	89.4	61.60	69.54	77.42	83.54	84.98	82.91	78.17	72.03	62.56	47.16	22.86
1655.1	94.21 (91.1)	88.9	61.99	69.67	77.67	83.31	84.12	82.06	77.64	71.64	62.46	47.61	24.25
1596.3	94.11 (91.0)	88.7	62.10	69.61	76.85	83.08	84.10	81.75	77.48	71.58	62.62	48.19	25.56
1552.9	94.01 (90.7)	88.6	62.34	69.76	76.37	82.43	83.82	81.80	77.72	71.90	63.10	48.99	26.90
1523.1	93.61 (90.3)	88.0	62.07	69.43	76.09	82.15	83.43	80.97	77.17	71.41	62.72	48.82	27.08
1505.7	93.91 (90.6)	88.3	61.71	69.63	76.12	82.32	83.89	81.34	77.24	71.51	62.88	49.11	27.54
1500.0	93.51 (90.1)	87.7	61.51	68.43	75.67	81.41	83.35	81.02	77.18	71.45	62.85	49.11	27.66
1505.7	93.51 (90.1)	87.6	61.47	68.23	75.69	80.46	83.53	81.24	77.03	71.30	62.67	48.69	27.37
1523.1	93.41 (90.1)	87.6	60.35	67.52	75.25	80.62	83.21	81.54	76.74	70.98	62.29	48.36	26.65
1552.9	92.81 (89.5)	87.1	59.91	66.70	73.97	80.51	82.87	80.92	76.23	70.38	61.88	47.46	25.16
1596.3	92.51 (89.4)	86.6	58.47	64.48	72.48	78.61	81.43	79.44	69.59	60.63	48.20	23.47	
1655.1	91.01 (87.8)	84.9	58.15	64.06	70.83	77.93	79.71	79.92	74.73	68.73	59.54	44.70	21.34

MUM NUMBER	= 520.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (IN)	= 533.000
SECONDARY TEMPERATURE (IN)	= 533.000
PRIMARY PRESSURE RATIO	= 1.064
AREA RATIO	= 1.000
VELOCITY RATIO	= .966
PRIMARY VELOCITY (FT/SEC)	= 903.200
MASS FLOW RATIO	= 1.331
PRIMARY MASS FLOW (LB/SEC)	= .325
THRUST (LBS)	= 26.000
ENVIRONMENTAL TEMPERATURE (IN)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.290
ENVIRONMENTAL HUMIDITY (PER CENT)	= 73.000
CALIBRATION FACTOR (IN. TO DY/50 CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 01.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.18879E+00	133.4	THRUST	POWER LEVEL (DB)
500	1.01914E+02	112.6	10000	159.2
1000	1.14066E+01	120.6	20000	162.2
2000	3.99614E+01	126.0	40000	165.2
4000	9.48533E+01	127.4	80000	168.2
8000	6.09870E+01	127.4		
16000	3.35714E+01	125.3		
31500	1.46844E+01	121.7		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.5	100.4	103.9	102.7	100.4	95.8	88.9	108.5
20.0	91.5	99.9	104.5	103.3	100.4	95.6	89.6	108.8
25.0	90.5	98.8	104.0	103.5	101.3	96.5	90.7	108.7
30.0	88.6	97.6	103.0	103.8	101.4	96.9	91.5	108.5
35.0	86.7	95.2	101.5	102.8	101.7	97.8	92.8	107.8
40.0	84.2	92.7	99.0	101.8	101.4	97.6	92.8	106.7
45.0	82.1	90.4	97.1	84.1	101.8	98.3	93.3	104.9
50.0	81.1	89.2	96.0	99.9	100.9	97.6	93.5	105.4
55.0	80.6	87.6	94.6	98.4	99.6	97.1	93.4	104.3
60.0	80.5	87.5	93.9	97.6	98.6	96.7	93.2	103.6
65.0	79.8	87.2	93.1	96.7	97.7	96.5	93.4	103.0
70.0	80.3	86.8	92.7	96.0	97.1	95.9	92.9	102.4
75.0	79.6	86.5	91.8	95.4	96.4	95.4	92.7	101.8
80.0	79.6	85.1	91.5	95.1	96.2	95.4	92.5	101.6
85.0	78.3	85.4	90.8	94.5	95.8	94.7	92.2	101.1
90.0	78.3	84.8	90.5	93.9	95.3	94.3	91.8	100.6
95.0	77.6	84.2	89.7	93.1	95.3	94.0	91.4	100.2
100.0	77.1	83.8	89.3	92.8	95.3	93.8	91.1	100.0
105.0	76.6	83.3	89.1	92.4	95.0	93.4	90.7	99.7
110.0	76.4	82.1	88.3	92.5	94.9	93.0	90.2	99.5
115.0	75.8	81.1	87.2	91.8	94.4	92.7	89.9	98.9

MODEL THRUST = 26.000 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS											
			18.6	35.1	72.1	144.2	288.4	576.9	1135.7	2271.5	4506.9	9013.0	18027.8	
9799.0	91.71	81.21	82.2	68.03	74.48	77.98	76.46	73.28	68.31	53.85	38.13	9.54	-41.28	-124.43
4385.7	85.11	84.41	85.0	68.06	76.42	80.99	79.54	75.99	69.49	59.21	46.58	24.22	-14.97	-78.62
3549.7	88.01	87.11	86.8	68.87	77.15	82.35	81.52	78.91	72.66	63.46	52.67	34.00	1.71	-50.37
3086.0	90.01	88.81	88.0	68.48	77.46	82.86	83.50	80.66	74.86	66.60	57.02	40.78	13.02	-31.47
2615.2	91.81	90.11	88.4	67.73	76.25	82.53	83.66	82.24	77.19	69.77	61.03	46.48	21.90	-17.26
2333.4	92.21	90.51	88.3	66.22	74.78	80.97	83.71	82.95	78.16	71.14	63.01	49.71	27.46	-7.81
2121.3	92.21	90.21	87.1	65.01	73.29	79.51	80.88	84.28	79.84	72.82	65.16	52.80	32.29	-0.04
1958.1	93.51	91.41	86.5	64.70	72.81	79.51	83.31	84.08	79.99	73.96	66.66	55.02	35.86	5.78
1831.2	93.31	90.91	88.0	64.81	71.79	78.71	82.42	83.40	80.15	74.62	67.60	56.52	38.41	10.08
1732.1	93.21	90.61	87.7	65.13	72.12	78.56	82.10	82.84	80.31	75.07	68.27	57.62	40.33	13.34
1655.1	93.21	90.41	87.5	64.84	72.20	78.13	81.58	82.16	80.47	75.84	69.21	58.90	42.24	16.36
1596.3	93.01	90.21	87.3	65.67	72.10	78.07	81.28	82.10	80.29	75.74	69.23	59.19	43.01	17.94
1557.4	92.41	89.81	86.9	65.22	72.09	77.36	80.72	81.65	79.69	75.84	69.44	58.58	43.77	19.29
1523.1	92.81	89.81	88.9	65.39	71.44	77.26	80.75	81.63	80.26	75.86	69.51	59.79	44.22	20.16
1505.7	92.51	89.41	86.5	64.12	71.25	76.62	80.25	81.35	79.64	75.70	69.40	59.75	44.33	20.50
1500.0	92.01	89.01	86.0	64.15	70.66	76.35	79.64	80.91	79.26	75.31	69.02	59.39	44.02	20.27
1505.7	91.71	88.61	85.6	63.46	70.09	75.54	78.92	80.80	78.93	74.88	68.58	58.93	43.51	19.68
1523.1	91.41	88.41	85.3	62.89	69.52	75.43	78.41	80.70	78.62	74.44	68.09	58.37	42.80	18.74
1557.4	90.81	87.91	84.8	62.22	68.86	74.54	77.20	79.22	78.03	73.80	67.40	57.54	41.73	17.25
1596.3	90.21	87.31	84.3	61.72	67.41	73.45	77.77	79.89	77.19	73.06	66.56	56.51	40.34	15.26
1655.1	89.21	86.41	83.4	60.87	66.18	72.24	76.69	79.08	76.70	72.29	65.65	55.35	38.69	12.80

RUN NUMBER	521.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-4.104
PRIMARY TEMPERATURE (R)	532.000
SECONDARY TEMPERATURE (R)	533.000
PRIMARY PRESSURE RATIO	1.122
AREA RATIO	1.000
VELOCITY RATIO	1.474
PRIMARY VELOCITY (FT/SEC)	791.771
MASS FLOW RATIO	1.925
PRIMARY MASS FLOW (LB/SEC)	3.308
THRUST (LBS)	30.500
ENVIRONMENTAL TEMPERATURE (R)	520.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.290
ENVIRONMENTAL HUMIDITY (PER CENT)	73.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.056
INSTRUMENTATION NOISE FLOOR (DB)	66.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	3.65226E+00	135.6	THRUST	POWER LEVEL (DB)
500	4.00845E-02	116.0	10000	160.8
1000	2.47238E-01	123.9	20000	163.6
2000	8.24381E-01	129.2	40000	166.8
4000	9.35395E-01	129.7	80000	169.8
8000	6.24423E-01	129.2		
16000	4.93453E-01	126.9		
31500	2.87280E-01	124.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1600	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	96.5	104.0	107.9	105.9	101.5	96.0	90.4	111.7
20.0	95.5	103.9	108.4	106.2	102.1	96.9	91.9	112.1
25.0	93.9	102.6	107.7	106.3	102.8	98.1	92.9	111.8
30.0	92.4	100.6	106.4	106.0	102.9	98.3	93.9	111.0
35.0	90.1	98.6	104.4	105.2	103.6	99.4	95.2	110.2
40.0	87.8	96.0	102.1	103.4	103.7	100.4	96.4	109.3
45.0	85.4	94.0	100.1	102.5	102.7	99.7	95.9	108.0
50.0	84.1	91.9	98.2	101.1	102.1	99.5	96.4	107.1
55.0	82.6	90.6	96.9	99.8	101.1	99.0	96.0	106.1
60.0	83.0	89.7	95.8	98.8	100.1	98.5	96.2	105.3
65.0	83.0	89.4	95.2	98.0	99.0	98.1	96.2	104.7
70.0	82.6	89.4	94.5	97.1	98.2	97.6	95.9	104.0
75.0	82.8	88.6	93.9	96.5	97.7	97.2	96.0	103.6
80.0	81.9	88.1	93.5	96.1	97.2	96.7	95.6	103.2
85.0	81.3	87.6	92.9	95.6	96.8	96.2	95.2	102.7
90.0	80.8	87.0	92.4	95.4	96.5	95.8	94.8	102.3
95.0	80.6	85.7	91.9	94.7	96.1	95.5	94.4	101.9
100.0	79.9	85.4	91.3	94.0	95.8	95.2	94.0	101.5
105.0	78.9	85.6	90.9	94.1	95.6	94.9	93.6	101.2
110.0	78.6	84.9	90.7	93.9	95.4	94.6	93.3	101.0
115.0	78.8	84.0	90.2	93.5	95.2	94.4	93.0	100.7

MODEL THRUST = 30.500 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 19.5	BAND 39.1	SOUND 78.1	PRESSURE 156.2	LEVELS 312.4	524.8	1230.1	2460.2	4881.4	9762.8	19525.6
5799.6	83.81	63.47	84.8	69.92	77.39	81.23	78.89	73.48	65.39	53.67	36.80	6.19	-47.83
4385.7	87.31	86.71	87.6	71.38	79.77	84.13	81.70	76.90	69.69	60.06	46.56	22.66	-18.95
354	89.81	89.01	89.1	71.64	80.29	85.13	83.77	79.60	73.32	64.36	52.86	32.95	-1.30
3000.0	91.51	90.31	89.0	71.54	79.75	85.50	84.40	81.38	75.37	67.75	57.57	40.28	10.87
2615.2	93.21	91.81	90.1	70.52	79.00	84.70	85.40	83.32	77.98	70.94	61.68	46.22	20.20
2333.6	94.31	92.61	90.1	69.16	77.31	83.42	85.08	84.46	80.18	73.69	65.10	50.99	27.44
2121.3	95.31	92.87	89.6	67.59	76.20	82.23	84.48	84.39	80.40	74.32	66.24	53.13	31.46
1958.1	94.61	92.41	89.3	67.02	74.73	81.03	83.47	84.49	81.03	75.81	68.13	55.80	35.56
1831.2	94.91	92.21	88.9	66.11	74.03	80.30	83.13	84.16	81.21	76.24	68.85	57.13	38.01
1732.1	94.51	91.91	88.6	66.94	73.63	79.47	82.64	83.63	81.20	77.09	69.94	58.69	40.44
1655.1	94.41	91.51	88.4	67.34	73.76	79.48	82.19	82.98	81.27	77.62	70.66	59.77	42.20
1596.3	94.21	91.21	88.1	67.30	74.08	79.11	81.63	82.51	81.13	77.78	70.95	60.35	43.30
1552.0	94.21	91.11	87.9	67.72	73.49	78.78	81.27	82.26	81.03	78.16	71.44	61.04	44.37
1523.1	94.01	90.81	87.6	68.95	73.16	78.43	81.07	81.94	80.73	77.94	71.33	61.08	44.67
1505.7	93.71	90.61	87.2	68.44	72.73	77.99	80.68	81.61	80.32	77.69	71.08	60.91	44.65
1500.0	93.41	90.11	86.9	68.04	72.21	77.55	80.48	81.32	79.97	77.36	70.77	60.63	44.42
1505.7	92.91	89.61	86.4	65.78	71.42	77.01	79.77	80.91	79.59	76.94	70.33	60.16	43.90
1523.1	92.31	89.11	85.9	64.96	71.48	76.37	78.93	80.51	79.18	76.41	69.76	59.51	43.10
1552.9	91.71	88.61	85.5	63.74	70.43	75.80	78.22	80.14	78.44	75.77	69.05	58.65	41.98
1596.3	91.21	88.11	85.0	63.22	69.56	75.31	78.41	79.68	78.17	75.19	68.37	57.76	40.71
1655.1	90.41	87.51	84.3	63.19	68.34	74.56	77.69	79.14	77.62	74.41	67.45	56.56	38.99

RUN NUMBER	522.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (IN)	531.000
SECONDARY TEMPERATURE (IN)	530.000
PRIMARY PRESSURE RATIO	2.224
AREA RATIO	2.007
VELOCITY RATIO	399
PRIMARY VELOCITY (FT/SEC)	1143.944
MASS FLOW RATIO	1.010
PRIMARY MASS FLOW (LB/SEC)	330
THRUST (LBS)	20.000
ENVIRONMENTAL TEMPERATURE (IN)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	68.000
CALIBRATION FACTOR (MV TO OY/50 CM)	0.029
INSTRUMENTATION NOISE FLOOR (DB)	58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL(SCALED FOR THRUST)	
OVERALL	2.18403E+00	133.4	THRUST	POWER LEVEL(DB)
500	7.38397E-03	108.7	10000	160.4
1000	4.90059E-02	116.9	20000	163.4
2000	2.47408E-01	123.9	40000	166.4
4000	6.94633E-01	128.4	80000	169.4
8000	7.41482E-01	128.7		
16000	3.13623E-01	125.0		
31500	1.30495E-01	121.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	86.6	94.8	100.7	100.9	98.7	91.3	84.2	105.6
20.0	85.7	94.7	101.1	101.3	98.6	91.3	85.7	105.6
25.0	85.0	93.7	100.7	101.7	98.9	91.8	86.7	105.9
30.0	83.7	92.8	100.4	102.3	99.8	92.9	88.0	106.3
35.0	82.0	91.0	98.8	101.9	100.6	94.0	89.1	106.0
40.0	80.5	89.4	97.3	101.7	101.0	95.1	90.1	105.8
45.0	79.8	88.1	95.8	101.1	102.0	96.8	91.4	106.0
50.0	79.0	86.8	94.4	100.6	101.7	97.4	91.8	105.6
55.0	78.0	85.9	93.7	100.4	101.4	97.4	92.4	105.4
60.0	78.1	85.6	92.9	99.7	100.7	97.3	93.3	104.9
65.0	78.1	85.4	92.5	99.2	100.8	96.4	92.4	104.3
70.0	77.3	85.3	91.8	98.4	99.3	95.7	92.6	103.6
75.0	77.3	85.1	91.4	98.2	99.2	96.0	92.6	103.5
80.0	76.8	84.9	90.8	97.9	98.6	95.7	92.6	103.1
85.0	76.4	84.1	90.7	97.5	98.3	95.6	92.7	102.8
90.0	76.4	83.9	90.6	96.5	98.2	95.2	92.5	102.5
95.0	75.9	83.4	90.3	95.4	97.4	94.8	91.9	101.7
100.0	75.7	82.6	90.1	95.9	96.8	94.8	91.6	101.6
105.0	75.7	82.6	88.7	95.5	96.5	94.0	91.3	101.1
110.0	75.0	81.9	87.6	95.0	95.6	94.9	91.0	100.8
115.0	75.0	81.2	85.6	93.0	93.8	93.2	89.6	99.0

MODEL THRUST = 20.000 FULL SCALE THRUST = 20000.000

L.	PND8.	OASPL	OCTAVE		BAND		SOUND		PRESSURE		LEVELS			
			15.8	31.6	63.2	126.5	253.0	506.0	996.1	1992.2	3982.8	7965.7	15911.4	
8999.0	79.01	79.31	80.5	81.93	70.05	75.88	75.90	72.92	83.58	91.73	37.74	12.23	-33.65	-109.92
4385.7	83.31	82.51	83.3	83.39	72.38	78.72	78.80	75.58	66.80	57.55	46.23	26.20	-9.25	-67.69
3549.3	85.91	84.81	85.1	84.57	73.70	80.23	81.04	77.80	69.49	61.51	51.78	35.00	5.74	-42.13
3000.0	88.41	87.21	87.0	86.69	73.79	81.36	83.19	80.26	72.32	65.03	56.34	41.69	16.49	-24.43
2615.7	90.31	88.91	87.8	86.20	73.16	80.99	83.99	82.35	74.82	67.81	59.85	46.70	24.35	-11.71
2333.6	91.91	90.21	88.7	87.70	72.58	80.50	84.74	83.80	77.10	70.20	62.78	50.71	30.45	-2.05
2121.3	93.81	91.71	89.6	88.71	72.08	79.79	85.01	85.65	79.74	72.62	65.60	54.36	35.67	5.65
1958.1	94.31	92.21	89.9	89.71	71.51	79.08	85.16	86.04	81.15	73.92	67.20	56.60	39.11	11.36
1831.2	95.01	92.61	90.4	89.27	71.21	79.08	85.57	86.41	81.73	75.28	68.81	58.70	42.15	16.00
1732.1	95.31	92.71	90.3	89.91	71.36	78.43	85.43	86.16	82.24	76.79	70.50	60.77	44.96	20.08
1655.1	95.11	92.41	90.1	89.31	71.62	78.62	85.32	85.89	81.73	76.39	70.26	60.83	45.58	21.46
1596.3	95.01	92.11	89.7	89.02	71.79	78.16	86.45	87.47	81.42	76.98	70.95	61.75	46.94	23.76
1552.4	95.31	92.41	89.9	89.86	71.42	78.14	86.46	85.68	81.36	77.42	71.48	62.45	47.96	25.37
1523.1	95.01	92.01	89.7	89.71	71.84	77.70	86.68	85.21	81.78	77.49	71.60	62.88	48.41	26.16
1505.7	95.01	91.91	89.5	89.45	71.09	77.72	86.38	85.00	81.80	77.71	71.65	63.00	48.88	26.43
1500.0	94.81	91.71	89.1	89.48	70.96	77.48	83.44	84.97	81.48	77.55	71.71	62.88	48.78	26.82
1505.7	94.01	90.91	88.4	88.88	70.42	77.29	82.34	84.18	81.02	76.91	71.05	62.20	48.06	26.43
1523.1	93.91	90.51	88.1	88.58	69.99	77.01	82.49	83.48	80.88	76.46	70.58	61.66	47.39	26.13
1552.4	92.41	89.81	87.5	87.41	69.37	75.41	82.18	82.97	79.97	75.82	69.88	60.85	46.46	23.43
1596.3	92.41	89.31	86.9	81.56	68.38	74.82	81.44	81.82	80.62	75.34	69.31	60.11	45.30	22.12
1655.1	90.31	87.21	84.7	81.23	67.41	71.72	79.13	78.68	78.46	73.56	67.42	62.75	46.46	18.42

NUM NUMBER	923.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-4.100
PRIMARY TEMPERATURE (R)	922.000
SECONDARY TEMPERATURE (R)	925.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	2.007
VELOCITY RATIO	.949
PRIMARY VELOCITY (FT/SEC)	893.831
MASS FLOW RATIO	1.923
PRIMARY MASS FLOW (LB/SEC)	3.42
THRUST (LBS)	31.000
ENVIRONMENTAL TEMPERATURE (R)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	38.000
CALIBRATION FACTOR (MV TO OY/50 CM)	.036
INSTRUMENTATION NOISE FLOOR (DB)	60.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.48409E+00	134.0	THRUST	POWER LEVEL (DB)
500	2.42845E-02	113.9	10000	159.0
1000	1.51265E-01	121.8	20000	162.0
2000	4.86719E-01	126.7	40000	165.1
4000	6.69707E-01	128.3	80000	168.1
8000	6.90480E-01	128.4		
16000	3.42700E-01	125.3		
31500	1.38923E-01	121.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	93.0	100.6	102.6	100.1	97.5	90.7	82.6	106.9
28.0	92.3	100.4	104.1	102.0	98.8	91.3	84.0	108.0
35.0	91.2	99.9	104.3	102.5	99.4	92.0	85.1	108.2
38.0	89.4	98.5	103.4	103.0	100.4	93.7	86.8	108.0
39.0	88.4	96.5	101.9	102.6	100.6	94.4	89.4	107.3
40.0	86.7	94.8	100.7	102.3	101.2	95.6	89.8	107.0
45.0	84.8	92.9	99.2	101.5	101.0	95.9	90.3	106.3
47.0	83.9	91.7	97.6	101.6	100.8	95.1	91.2	105.6
50.0	82.3	90.4	97.1	100.7	100.7	96.3	92.2	105.4
60.0	82.3	89.8	95.7	99.4	100.2	96.5	92.9	104.8
65.0	81.9	88.7	95.1	98.2	99.1	96.5	92.9	104.0
70.0	81.0	88.1	93.7	97.2	98.3	96.1	93.1	102.7
75.0	81.3	88.2	93.7	96.8	97.9	95.8	92.2	102.9
80.0	80.8	87.6	93.2	96.5	97.6	95.5	92.4	102.6
85.0	79.8	86.9	92.4	96.0	97.5	96.2	92.9	102.6
90.0	80.0	86.6	92.1	95.5	97.7	96.1	93.1	102.5
95.0	79.0	85.8	91.9	95.1	97.4	95.9	92.4	102.1
100.0	78.6	85.2	91.4	94.6	97.1	95.9	92.0	101.8
105.0	77.7	84.9	91.0	95.1	97.7	96.2	92.8	102.2
110.0	77.7	84.2	90.1	94.6	97.5	96.7	92.6	102.1
115.0	77.5	82.3	88.7	93.8	96.3	96.4	92.2	101.4

MODEL THRUST = 31.000 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	10.7	39.4	78.7	157.5	315.0	629.9	LEVELS	1240.2	2480.3	4921.3	9842.5	19685.0
8999.0	70.01	77.71	79.9	88.82	73.92	73.84	73.05	69.38	59.97	41.85	28.85	-2.17	-56.52	-146.48
4305.7	82.61	82.11	83.5	88.09	76.18	79.82	77.47	73.51	64.00	51.00	38.41	14.36	-27.51	-94.78
2949.3	55.31	66.71	85.6	88.89	77.50	81.82	79.37	76.16	67.17	56.41	44.83	24.86	-9.66	-64.67
2000.0	47.81	67.01	86.8	88.52	77.57	82.41	81.88	78.77	70.86	60.55	50.30	32.90	3.32	-43.65
2618.2	89.41	88.31	87.3	88.65	76.42	82.15	82.73	80.27	72.86	64.05	54.73	39.18	13.00	-28.32
2335.6	90.91	89.61	87.9	87.95	76.09	81.91	83.42	81.93	75.22	66.91	58.27	44.07	20.39	-16.81
2121.3	91.71	90.21	88.0	88.95	74.96	81.27	83.49	82.62	76.45	68.84	60.56	47.38	25.58	-4.51
1956.1	92.31	90.61	88.0	88.71	74.46	80.35	83.25	83.17	77.34	70.50	62.77	50.37	30.02	-1.68
1831.2	93.11	91.21	88.3	85.67	73.41	80.47	83.47	83.64	78.44	72.32	64.90	53.11	33.88	6.04
1732.1	93.61	91.31	88.2	86.15	73.68	79.51	83.11	83.65	79.19	73.65	66.47	55.16	36.81	8.43
1659.1	93.71	90.91	87.8	86.18	73.00	79.31	82.30	82.93	79.64	74.25	67.25	56.30	38.64	11.39
1596.3	92.61	89.71	86.7	85.58	72.70	78.29	81.42	82.44	79.57	74.84	67.98	57.32	40.18	13.78
1552.9	92.91	90.41	87.2	86.09	73.00	76.53	81.52	82.30	79.56	74.25	67.50	57.04	40.28	14.52
1523.1	92.91	90.31	87.1	85.42	72.57	76.12	81.30	82.23	79.46	74.72	68.04	57.73	41.23	15.91
1509.7	93.11	90.31	87.1	84.91	72.03	77.50	80.94	82.25	80.21	75.27	68.64	58.41	42.07	17.00
1500.0	93.21	90.41	87.0	85.10	71.49	77.22	80.50	82.44	80.14	75.55	68.93	58.73	42.43	17.45
1509.7	92.71	90.01	86.7	84.08	70.94	76.96	80.05	82.12	79.93	74.85	68.21	57.99	41.64	16.58
1523.1	92.31	89.61	86.2	83.63	70.23	76.33	79.44	81.70	79.42	74.34	67.66	57.35	40.85	15.43
1552.9	92.61	89.81	86.5	82.51	69.73	75.75	79.78	82.13	79.04	74.86	68.11	57.66	40.90	15.14
1596.3	92.61	89.41	86.1	82.27	68.74	74.64	78.09	81.64	80.19	74.31	67.45	56.79	39.64	13.25
1659.1	91.01	88.31	84.9	81.75	66.55	72.96	77.93	80.17	79.48	73.57	66.58	55.63	37.97	10.71

RUN NUMBER	524.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (RI)	526.000
SECONDARY TEMPERATURE (RI)	526.000
PRIMARY PRESSURE RATIO	1.322
AREA RATIO	2.007
VELOCITY RATIO	1.472
PRIMARY VELOCITY (FT/SEC)	697.803
MASS FLOW RATIO	2.778
PRIMARY MASS FLOW (LB/SEC)	37.000
THRUST (LBS)	521.000
ENVIRONMENTAL TEMPERATURE (RI)	29.250
ENVIRONMENTAL PRESSURE (IN.HG)	48.000
ENVIRONMENTAL HUMIDITY (PER CENT)	.050
CALIBRATION FACTOR (MV TO OY/SQ CM)	63.559
INSTRUMENTATION NOISE FLOOR (DB)	

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.77916E+00	136.8	THRUST	POWER LEVEL (DB)
300	5.22501E+02	117.2	10000	161.1
1000	3.36882E+01	125.3	20000	164.1
2000	1.00049E+00	130.0	40000	167.1
4000	1.20749E+00	130.8	80000	170.1
8000	1.09764E+00	130.4		
16000	6.75973E-01	128.3		
31500	4.08440E-01	126.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LFVELS 16000	31500	OVER ALL
15.0	96.9	104.2	106.3	104.1	99.7	94.6	87.7	110.5
20.0	96.2	104.2	107.4	105.2	101.2	95.6	89.3	111.3
25.0	94.7	103.5	107.5	105.9	101.5	95.7	90.2	111.4
30.0	93.3	102.8	107.3	106.3	102.8	97.0	91.5	111.5
35.0	91.8	100.3	106.1	106.1	103.5	98.5	93.8	111.0
40.0	89.6	98.6	104.2	105.3	103.4	99.1	94.6	110.0
45.0	88.4	96.4	102.5	104.4	103.8	100.1	96.0	109.5
50.0	85.7	93.9	100.2	102.3	102.6	99.6	95.8	107.9
55.0	85.4	92.7	98.8	101.7	102.5	100.0	97.0	107.6
60.0	84.5	91.9	98.0	100.6	101.5	99.4	96.6	106.7
65.0	83.8	91.2	96.8	99.6	100.9	99.6	97.6	106.3
70.0	83.7	91.1	96.2	99.4	100.8	99.8	98.1	106.3
75.0	83.7	90.7	95.6	98.7	99.8	99.4	98.0	105.7
80.0	83.8	90.0	95.4	98.4	99.8	99.2	98.0	105.5
85.0	82.9	89.5	95.0	98.1	99.6	99.0	97.8	105.3
90.0	82.5	89.1	94.6	98.0	99.4	98.7	97.5	105.0
95.0	82.0	88.3	94.1	97.6	99.2	98.5	97.1	104.7
100.0	81.4	88.0	93.7	97.2	99.0	98.2	96.8	104.4
105.0	80.4	87.6	93.4	97.2	98.9	97.9	96.4	104.2
110.0	80.0	86.8	93.0	96.9	98.6	97.6	96.1	103.9
115.0	79.8	85.4	91.9	96.4	98.5	97.3	95.8	103.6

MODEL THRUST = 37.000 FULL SCALE THRUST = 20000.000

L.	PND8.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
			21.5	43.0	86.0	172.0	344.1	688.2	1354.9	2709.7	5376.5	10752.9	21505.8
3795.8	81.81 81.41	82.7	69.48	76.78	78.80	76.12	70.64	62.59	48.81	30.42	-2.80	-60.88	-153.76
4385.7	85.81 85.41	86.0	71.25	79.24	82.34	79.78	74.98	67.12	55.56	40.90	15.04	-29.64	-100.66
3549.3	88.61 87.91	88.0	71.63	80.36	84.30	82.41	77.39	69.73	60.01	47.59	26.08	-10.65	-68.70
3088.0	90.91 90.11	89.6	71.66	81.09	85.52	84.39	80.29	72.98	63.83	52.86	34.22	2.71	-46.82
2615.2	92.71 91.61	90.1	71.32	79.80	85.52	85.34	82.31	75.05	68.16	58.22	41.58	13.73	-29.83
2333.6	93.61 92.31	90.1	70.16	79.04	84.65	85.57	83.25	77.77	70.50	61.30	46.13	20.95	-18.24
2121.3	94.51 93.31	90.3	69.76	77.71	83.42	85.56	84.51	79.76	73.13	64.49	56.43	27.27	-9.43
1958.1	94.51 92.71	89.3	67.76	75.91	82.16	84.21	84.05	80.12	73.97	65.77	52.56	30.95	-2.42
1831.2	95.31 93.31	89.6	67.99	75.34	81.43	84.21	84.57	81.18	76.02	68.15	59.61	35.20	3.40
1732.1	95.11 92.91	89.2	67.62	74.99	81.11	83.50	84.10	81.17	76.28	68.68	58.65	37.19	7.32
1655.1	95.41 92.91	89.1	67.34	74.65	80.29	82.91	83.89	81.79	77.60	70.40	58.77	40.04	11.37
1596.3	95.91 93.31	89.4	67.51	74.90	80.03	83.04	84.17	82.38	78.79	71.55	60.22	42.05	14.30
1552.9	95.51 92.81	89.0	67.75	74.74	79.45	82.64	83.39	82.23	78.98	71.65	60.75	43.00	15.91
1523.1	95.71 92.91	89.0	68.06	74.21	79.60	82.46	83.57	82.22	79.20	72.16	61.22	43.74	17.12
1505.7	95.61 92.81	88.9	67.27	73.79	79.25	82.33	83.51	82.13	79.15	72.15	61.30	43.99	17.64
1500.0	95.31 92.61	88.7	66.83	73.42	78.91	82.21	83.34	81.86	78.86	71.88	61.06	43.80	17.54
1505.7	95.01 92.21	88.3	66.29	72.63	78.43	81.76	83.09	81.64	78.42	71.42	60.57	43.26	16.91
1423.1	94.51 91.81	87.9	65.65	72.26	77.66	81.27	82.81	81.23	77.97	70.93	59.98	42.51	15.89
1352.9	94.11 91.41	87.5	64.51	71.62	77.42	81.09	82.51	80.73	77.37	70.24	58.74	41.30	14.30
1306.3	93.51 90.81	86.9	63.84	70.57	76.78	80.54	81.97	80.13	76.78	69.52	58.20	40.83	12.27
1255.1	92.81 90.21	86.2	63.31	68.88	75.16	79.79	81.54	79.48	76.04	68.64	57.81	38.28	9.61

RUN NUMBER	= 525.000
AJIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 925.000
SECONDARY TEMPERATURE (R)	= 925.000
PRIMARY PRESSURE RATIO	= 7.224
AREA RATIO	= 6.856
VELOCITY RATIO	= 4.000
PRIMARY VELOCITY (FT/SEC)	= 1137.502
MASS FLOW RATIO	= 1.951
PRIMARY MASS FLOW (LB/SEC)	= 333
THRUST (LBS)	= 24.500
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	= 68.000
CALIBRATION FACTOR (MV TO DY/50 CM)	= .028
INSTRUMENTATION NOISE FLOOR (DB)	= 58.544

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	2.14274E+00	133.3	THRUST	POWER LEVEL (DB)
500	1.10126E-02	110.4	10000	159.4
1000	6.27347E-02	118.0	20000	162.4
2000	2.94649E-01	124.7	40000	165.4
4000	8.07054E-01	129.1	80000	168.4
8000	6.77626E-01	128.3		
16000	1.89866E-01	122.8		
31500	9.97972E-02	120.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	89.9	97.0	101.6	101.2	98.8	87.1	82.5	105.9
20.0	88.7	96.7	102.4	102.3	97.9	88.6	84.4	106.7
25.0	87.6	95.0	101.8	102.6	98.5	89.4	85.7	106.6
30.0	85.4	94.4	101.4	102.6	98.7	90.5	87.2	106.5
35.0	84.1	92.7	100.0	102.3	99.5	92.1	87.8	106.1
40.0	82.7	90.7	99.3	101.7	100.6	94.2	89.5	105.8
45.0	81.3	88.7	96.2	101.0	101.2	95.9	90.9	105.5
50.0	79.7	87.3	94.6	100.6	101.3	95.8	91.3	105.3
55.0	79.4	86.6	93.9	100.6	101.1	95.4	91.7	105.1
60.0	78.6	85.5	93.0	100.4	100.7	94.8	92.1	104.7
65.0	78.3	85.7	92.6	100.0	100.0	94.2	91.8	104.2
70.0	78.6	85.3	92.0	99.6	99.6	94.2	91.9	103.9
75.0	78.0	84.9	91.3	99.1	99.2	93.5	91.7	103.4
80.0	78.1	84.6	90.7	98.9	98.4	93.1	91.4	103.0
85.0	77.5	84.2	90.8	98.8	97.8	92.7	91.1	102.6
90.0	77.5	84.3	90.9	98.0	98.0	92.9	90.7	102.4
95.0	76.3	83.7	91.0	96.7	97.1	92.4	90.2	101.5
100.0	76.1	82.7	90.4	96.6	96.0	92.2	89.9	101.0
105.0	75.5	82.1	89.8	96.6	95.8	91.7	89.3	100.7
110.0	74.8	80.9	88.5	96.1	94.6	91.7	89.1	100.1
115.0	74.6	79.9	86.9	94.1	93.2	90.5	88.7	98.6

MODEL THRUST = 24.500 FULL SCALE THRUST = 20000.000

L.	PNDL	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS											
			17.5	35.0	70.0	140.0	280.0	560.0	1102.5	2205.0	4375.0	8750.0	17500.0	
8795.6	78.31	77.91	80.0	64.30	71.39	75.92	75.23	69.96	58.02	48.05	32.74	4.88	-44.79	-126.35
4345.7	82.71	82.01	85.2	65.50	73.48	79.1	78.88	73.83	62.43	54.56	42.24	20.43	-17.89	-40.34
3549.5	85.21	84.31	84.9	66.23	73.64	80.16	81.07	76.41	65.96	58.94	48.40	30.18	-14.41	-52.52
3086.0	87.21	86.11	86.3	65.55	74.48	81.51	82.56	78.17	68.85	62.71	53.34	37.47	10.31	-33.35
2615.2	89.01	87.71	87.1	65.47	74.84	81.27	83.47	80.29	71.83	65.19	56.63	42.41	18.35	-20.09
2333.6	90.91	89.41	87.7	64.87	72.97	80.60	83.82	82.44	75.13	68.27	60.32	47.31	25.51	-9.12
2121.3	92.41	90.71	88.3	64.43	71.84	79.30	84.08	83.86	77.74	70.76	63.26	51.16	31.08	-6.68
1958.1	93.11	91.21	88.7	63.50	71.14	78.38	84.33	84.77	78.65	72.17	65.01	53.61	34.84	5.30
1831.2	93.71	91.61	89.1	64.33	71.83	78.29	84.80	85.13	79.73	73.38	66.49	58.64	37.89	10.07
1732.1	94.01	91.71	89.3	63.47	70.41	77.48	85.19	85.21	79.70	74.33	67.65	57.22	40.27	13.79
1655.1	94.01	91.61	89.2	63.57	71.01	77.47	84.21	84.97	79.48	74.69	68.17	58.07	41.74	15.31
1546.3	94.21	91.71	89.2	64.18	70.81	77.42	85.13	84.92	79.83	75.09	68.70	58.85	43.00	14.35
1552.9	94.01	91.41	89.9	63.82	70.79	77.14	84.83	84.74	79.49	74.18	68.89	59.22	47.72	19.67
1523.1	93.71	91.01	89.7	64.15	70.58	76.73	84.84	84.13	79.24	74.12	68.89	59.36	44.09	20.44
1505.7	93.51	90.81	89.4	63.61	70.29	76.48	84.80	83.40	77.92	74.91	68.71	59.26	44.13	20.72
1500.0	93.51	90.91	89.7	63.85	70.48	77.04	84.07	83.85	78.15	74.54	68.36	58.92	43.84	20.51
1505.7	92.71	90.61	87.3	62.34	69.79	77.08	82.70	82.94	77.59	74.00	67.81	58.35	43.22	19.81
1523.1	91.41	88.11	86.6	62.09	68.70	76.34	82.41	81.46	77.11	73.62	67.34	57.85	42.68	18.94
1552.9	91.21	88.51	86.2	61.32	67.48	75.47	82.38	81.11	76.88	73.00	67.70	57.88	41.54	17.49
1546.3	90.71	87.41	85.3	60.44	66.40	74.12	81.90	79.91	76.38	72.27	65.88	56.03	40.18	15.44
1645.1	88.41	85.71	83.4	59.90	65.19	72.12	79.33	78.19	74.82	71.50	64.98	54.88	38.44	13.12

RUN NUMBER	526.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-4.100
PRIMARY TEMPERATURE (°F)	523.000
SECONDARY TEMPERATURE (°F)	525.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	4.056
VELOCITY RATIO	.968
PRIMARY VELOCITY (FT/SEC)	804.647
MASS FLOW RATIO	3.963
PRIMARY MASS FLOW (LB/SEC)	.162
THRUST (LBS)	46.000
ENVIRONMENTAL TEMPERATURE (°F)	921.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	68.000
CALIBRATION FACTOR (HV TO DV/50 CM)	.040
INSTRUMENTATION NOISE FLOOR (DB)	61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.30201E+00	133.6	THRUST	POWER LEVEL (DB)
500	5.92658E-02	118.4	10000	157.0
1000	3.03956E-01	124.0	20000	160.0
2000	5.72671E-01	127.6	40000	163.0
4000	5.81539E-01	127.6	80000	166.0
8000	4.54008E-01	126.6		
16000	2.18566E-01	123.4		
31500	1.02003E-01	120.1		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	OCTAVE BAND 2000	OCTAVE BAND 4000	OCTAVE BAND 8000	OCTAVE BAND 16000	31500	OVERALL
15.0	98.6	103.8	103.2	98.6	94.4	86.8	81.9	108.0
20.0	97.2	104.0	104.5	100.2	96.0	88.2	83.9	108.7
25.0	96.3	103.3	104.8	101.3	97.4	89.9	85.1	108.8
30.0	94.2	101.3	103.9	101.9	98.2	91.1	86.8	108.1
35.0	93.0	99.8	102.9	101.9	98.8	92.0	87.1	107.5
40.0	90.6	97.3	101.2	101.4	94.1	93.5	88.9	106.5
45.0	89.2	95.5	100.2	101.5	99.6	94.7	90.5	106.2
50.0	87.7	94.1	98.8	100.1	99.0	94.8	90.9	105.2
55.0	86.4	93.0	97.3	99.0	98.7	95.1	91.7	104.4
60.0	86.0	92.3	96.6	98.4	97.7	94.9	91.6	103.8
65.0	85.0	91.5	95.5	97.5	97.4	95.0	91.9	103.2
70.0	85.2	91.3	95.3	97.4	97.3	94.9	92.0	103.1
75.0	84.5	90.2	94.7	96.9	96.6	94.2	91.4	102.5
80.0	84.2	89.8	94.0	96.4	96.4	94.5	91.2	102.2
85.0	84.0	89.7	93.9	96.1	96.0	94.0	91.2	101.9
90.0	83.4	88.8	92.9	95.2	96.0	94.0	91.2	101.5
95.0	82.8	88.3	93.0	95.1	95.7	93.7	90.8	101.3
100.0	82.3	88.2	92.7	94.6	95.6	93.9	90.9	101.1
105.0	81.3	87.4	92.3	94.5	95.1	93.6	90.4	100.8
110.0	81.3	86.1	91.9	94.4	94.9	93.1	90.2	100.4
115.0	81.1	85.5	91.4	94.1	94.6	93.0	89.1	100.0

MODEL THRUST = 46.000 FULL SCALE THRUST = 20000.000

L	PNDL	OASPL	OCTAVE BAND 25.0	OCTAVE BAND 45.0	OCTAVE BAND 95.9	OCTAVE BAND 191.8	OCTAVE BAND 383.7	OCTAVE BAND 767.3	OCTAVE BAND 1510.7	OCTAVE BAND 3021.4	OCTAVE BAND 5994.8	OCTAVE BAND 11089.6	OCTAVE BAND 23070.2
8799.8	78.31	78.11	79.4	70.29	75.47	74.69	69.85	64.10	53.11	40.26	19.99	-16.39	-174.42
4385.7	80.91	80.61	82.5	71.29	78.08	78.42	73.78	68.56	58.18	47.99	31.92	3.66	-120.41
2549.3	84.21	83.71	84.5	72.27	79.24	80.64	76.82	72.15	62.53	52.95	39.38	15.93	-85.63
2000.0	86.31	85.61	85.2	71.62	78.71	81.21	78.99	74.56	65.67	57.28	45.34	25.06	-61.71
2015.2	87.61	86.81	85.8	71.55	78.34	81.40	80.14	76.53	68.13	59.75	48.96	30.49	-45.52
2333.6	88.71	87.71	85.7	70.18	76.89	80.49	80.73	77.91	70.86	63.11	53.16	36.72	-32.11
2121.3	90.11	88.91	86.2	69.57	75.89	80.54	81.63	79.32	73.09	66.05	56.73	41.51	-21.40
1958.1	90.41	89.01	85.8	68.76	75.15	79.40	81.00	79.46	74.03	67.54	58.71	44.43	-14.29
1831.2	90.81	89.21	85.6	68.11	74.65	78.92	80.45	79.77	75.08	69.20	60.75	47.20	-8.10
1732.1	90.61	89.01	85.4	68.17	74.41	78.71	80.38	79.29	75.49	69.76	61.60	48.63	-4.01
1655.1	91.01	89.11	85.2	67.55	74.66	78.00	79.85	79.39	76.04	70.71	62.78	50.25	-3.31
1596.3	91.31	89.31	85.4	68.06	74.17	78.11	80.14	79.61	76.32	71.23	63.44	51.28	2.30
1552.9	90.91	88.91	85.0	67.60	73.30	77.76	79.79	79.18	75.92	70.97	63.34	51.30	3.60
1523.1	90.91	88.91	84.9	67.45	73.06	77.26	79.54	79.16	76.35	71.04	63.51	51.73	4.73
1505.7	90.91	88.71	84.7	67.31	73.04	77.19	79.31	78.90	75.99	71.10	63.62	51.95	5.41
1500.0	90.81	88.51	84.3	67.20	72.25	76.30	78.45	78.90	76.03	71.15	63.68	52.04	5.66
1505.7	90.91	88.21	84.0	66.16	71.47	76.32	78.58	78.58	75.69	70.74	63.29	51.62	5.38
1523.1	90.11	87.91	83.7	65.54	71.50	75.93	77.72	74.37	75.77	70.72	63.18	51.41	4.40
1552.9	89.61	87.31	83.2	64.38	70.51	75.32	77.43	77.71	75.23	70.32	62.69	50.75	31.70
1546.3	84.41	80.71	82.6	64.14	69.81	74.72	77.12	77.22	74.52	69.46	61.70	49.51	5.53
1655.1	87.71	85.81	81.9	63.68	68.04	73.92	76.50	76.57	74.05	69.06	61.42	50.32	-4.14

RUN NUMBER	527.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-4.100
PRIMARY TEMPERATURE (R)	528.000
SECONDARY TEMPERATURE (R)	530.000
PRIMARY PRESSURE RATIO	1.327
AREA RATIO	4.856
VELOCITY RATIO	1.475
PRIMARY VELOCITY (FT/SEC)	690.128
MASS FLOW RATIO	5.249
PRIMARY MASS FLOW (LB/SEC)	3.08
THRUST (LBS)	62.000
ENVIRONMENTAL TEMPERATURE (R)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	68.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	0.071
INSTRUMENTATION NOISE FLOOR (DB)	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.16488E+00	137.9	THRUST	POWER LEVEL (DB)
500	1.85339E-01	122.7	10000	160.0
1000	9.12160E-01	129.6	20000	163.0
2000	1.68696E+00	132.3	40000	166.0
4000	1.37541E+00	131.4	80000	169.0
8000	1.03107E+00	130.1		
16000	6.13021E-01	127.9		
31500	3.60904E-01	125.6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	103.0	108.8	109.0	103.2	98.0	93.1	87.5	113.1
20.0	102.1	109.3	109.9	104.5	99.7	94.5	89.8	113.8
25.0	100.5	108.2	109.8	105.2	100.5	94.8	90.5	113.5
30.0	99.1	106.7	109.2	105.8	101.6	96.6	92.4	112.9
35.0	97.2	104.3	107.8	106.4	102.8	98.2	93.9	112.2
40.0	94.5	102.3	106.0	105.8	105.0	98.9	94.9	111.1
45.0	93.0	100.1	104.5	104.7	103.3	99.8	96.2	110.2
50.0	92.0	98.1	102.9	103.8	103.0	100.2	97.0	109.4
55.0	90.3	97.0	101.4	102.5	102.1	99.6	96.8	108.3
60.0	89.5	96.0	100.7	102.1	101.8	99.8	97.0	107.9
65.0	89.6	95.3	99.6	101.0	101.0	99.4	97.3	107.2
70.0	88.7	94.8	99.3	100.2	100.7	99.3	97.1	106.8
75.0	88.3	94.1	98.3	99.9	100.3	99.0	97.4	106.4
80.0	88.4	93.8	98.0	99.9	99.9	98.7	97.2	106.2
85.0	87.7	93.7	97.4	99.3	99.5	98.4	96.9	105.7
90.0	87.0	92.9	97.1	99.1	99.2	98.1	96.5	105.4
95.0	86.8	92.7	96.7	98.7	99.0	97.8	96.2	105.1
100.0	85.5	91.8	96.2	98.4	98.8	97.4	95.8	104.7
105.0	85.5	91.3	96.3	98.2	98.3	97.0	95.5	104.4
110.0	84.3	90.4	95.8	97.7	98.0	96.6	95.0	104.0
115.0	84.0	89.8	95.4	97.8	97.8	96.3	94.6	103.8

MODEL THRUST = 62.000 FULL SCALE THRUST = 20000.000

L.	PN08.	OASPL	OCTAVE 27.8	BAND 55.7	SOUND 111.4	PRESSURE 222.7	LEVELS 445.4	890.8	1753.8	3507.7	6959.7	13919.4	27839.8
3999.0	81.01	81.51	83.2	73.34	79.13	79.17	72.71	69.91	98.83	41.92	18.79	22.32	-92.23
4385.7	85.71	85.51	86.3	74.85	82.03	82.49	76.71	70.62	62.29	50.51	32.28	4.44	-53.19
3549.3	88.01	87.81	87.8	75.18	82.84	84.28	79.30	73.62	65.40	55.31	39.08	13.64	-30.34
3080.0	89.91	89.31	88.7	75.19	82.79	85.14	81.45	76.42	69.27	60.22	46.80	24.07	-13.56
2615.2	91.71	90.91	89.0	74.48	81.57	84.99	83.27	79.01	72.49	63.96	51.67	31.68	-1.52
2333.6	92.41	91.51	88.9	72.74	80.51	84.16	83.71	80.34	74.47	66.71	55.61	37.26	7.32
2121.3	93.11	92.01	88.7	72.12	79.18	83.47	83.53	81.50	76.48	69.43	59.66	42.11	14.62
1958.1	93.71	92.41	88.5	71.79	77.93	82.62	83.35	81.97	77.80	71.41	61.61	45.74	20.13
1831.7	93.61	92.11	88.0	70.66	77.35	81.69	82.60	81.71	77.91	72.12	62.76	47.72	23.58
1732.1	94.01	92.41	88.1	70.36	76.86	81.46	82.70	81.92	78.69	73.10	64.09	49.70	26.70
1655.1	94.01	92.21	87.7	70.85	76.56	80.42	82.06	81.56	78.76	74.00	65.25	51.37	29.26
1596.3	94.01	92.21	87.6	70.31	76.35	80.42	81.54	81.54	79.45	74.26	65.72	52.22	30.79
1552.4	94.11	92.21	87.4	70.09	75.91	80.35	81.44	81.51	79.05	74.97	66.58	53.37	32.44
1523.1	94.11	92.11	87.3	70.37	75.42	79.91	81.64	81.23	78.96	74.94	66.65	53.64	33.05
1505.7	93.91	91.91	87.0	69.74	75.24	79.38	81.18	80.93	78.77	74.80	66.57	53.67	33.28
1500.0	93.51	91.51	86.7	69.11	75.04	79.11	81.03	80.68	78.49	74.47	66.26	53.39	33.08
1505.7	93.21	91.21	86.4	68.94	74.79	78.71	80.60	80.47	78.17	74.10	65.07	52.97	32.59
1523.1	92.41	90.41	85.4	67.47	73.41	78.12	80.13	79.96	77.65	73.63	65.34	52.32	31.74
1542.4	92.71	90.71	85.4	67.31	73.13	78.10	79.75	79.46	77.03	73.04	64.64	51.43	30.50
1546.1	91.31	89.41	84.7	65.84	71.95	77.30	79.66	78.91	76.36	72.14	63.59	50.10	29.67
1555.1	90.41	88.81	84.1	66.07	71.63	76.56	78.43	78.37	75.65	71.29	62.54	48.65	26.55

RUN NUMBER	528.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (IN)	531.000
SECONDARY TEMPERATURE (IN)	532.000
PRIMARY PRESSURE RATIO	2.220
AREA RATIO	9.788
VELOCITY RATIO	4.000
PRIMARY VELOCITY (FT/SEC)	1143.984
MASS FLOW RATIO	3.101
PRIMARY MASS FLOW (LB/SEC)	3.347
THRUST (LBS)	31.000
ENVIRONMENTAL TEMPERATURE (R)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	68.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.020
INSTRUMENTATION NOISE FLOOR (DB)	55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATT)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	9.59094E-01	129.8	THRUST	POWER LEVEL (DB)
500	1.25528E-02	111.0	10000	154.9
1000	5.60028E-02	117.5	20000	157.9
2000	1.83484E-01	122.6	40000	160.9
4000	3.17742E-01	125.0	80000	163.9
8000	2.26234E-01	123.6		
16000	1.00049E-01	120.0		
31500	6.15695E-02	117.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	89.6	95.5	98.2	96.1	89.8	81.3	79.9	102.1
20.0	89.1	96.1	99.2	97.2	89.8	82.6	81.5	103.0
25.0	88.0	94.9	99.4	98.1	91.0	83.8	82.0	103.1
30.0	86.4	93.6	99.4	98.9	92.6	85.9	84.3	103.4
35.0	85.2	92.1	98.1	99.0	94.0	87.8	85.3	103.0
40.0	83.5	90.2	96.8	98.6	96.5	91.0	87.2	102.9
45.0	82.2	88.9	94.8	98.0	95.5	94.1	89.7	103.2
50.0	80.6	86.9	92.8	97.5	93.4	94.4	90.9	102.8
55.0	80.4	86.1	92.0	96.8	97.3	93.8	90.7	102.0
60.0	79.6	85.5	91.7	96.3	96.3	92.9	89.7	101.3
65.0	79.6	85.3	90.8	96.0	95.2	92.3	89.6	100.6
70.0	79.0	84.9	90.6	95.5	94.4	91.7	89.4	100.1
75.0	79.1	85.0	90.0	95.1	93.6	90.9	89.2	99.5
80.0	78.1	84.4	89.6	94.5	92.9	90.3	89.1	99.0
85.0	76.9	84.1	89.1	93.6	92.1	89.3	88.8	98.2
90.0	77.5	83.8	88.9	92.7	91.4	88.3	87.7	97.5
95.0	77.0	83.1	88.8	92.0	90.9	87.9	87.6	97.0
100.0	76.5	82.2	88.0	91.0	90.3	87.3	86.5	96.5
105.0	76.0	81.3	87.3	91.8	90.0	86.9	86.5	96.2
110.0	75.6	80.5	86.8	90.8	89.4	87.9	86.5	95.0
115.0	75.1	80.0	85.3	89.1	88.2	86.7	86.9	94.6

MODEL THRUST = 31.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	19.7	OCTAVE 39.4	BAND 78.7	SOUND 157.5	PRESSURE 315.0	LEVELS 629.9	1240.2	2480.3	4921.3	9842.5	19685.0
3945.4	72.31	71.97	73.2	83.01	88.49	71.45	89.02	80.78	50.59	43.02	26.02	-4.80	-59.16
4385.7	76.71	76.01	78.5	84.93	71.91	74.91	72.62	64.47	55.29	49.56	35.96	11.91	-29.45
3949.7	79.91	79.17	80.6	85.66	72.55	76.98	75.45	67.72	58.99	54.18	42.56	22.52	-11.93
3000.0	82.61	81.61	82.2	85.53	72.74	78.44	77.75	70.95	62.87	55.12	47.87	30.47	-8.00
2615.2	84.41	83.21	83.0	85.48	72.43	78.35	79.12	73.66	66.24	60.92	51.61	36.05	9.88
2333.0	86.61	85.11	83.8	84.84	71.49	78.06	79.68	77.25	70.69	64.34	55.70	41.50	17.82
2121.3	89.11	87.41	84.8	84.35	70.46	76.43	79.47	80.07	74.72	68.02	59.90	46.72	24.92
1958.1	90.01	88.01	85.1	83.43	69.69	75.46	80.19	80.75	75.82	70.22	62.49	50.09	29.74
1831.2	90.01	87.81	84.8	83.84	69.49	75.35	80.01	80.26	75.91	70.86	63.43	51.64	32.42
1732.1	89.71	87.41	84.6	83.46	69.35	75.49	80.06	79.76	75.54	70.53	63.34	52.03	33.68
1655.1	89.51	87.01	84.4	83.85	69.55	75.07	80.19	79.02	75.38	70.91	63.92	52.97	35.31
1596.3	89.41	86.81	84.2	83.00	69.45	75.11	80.00	78.61	75.18	71.10	64.33	53.67	36.52
1552.9	89.11	86.61	83.9	83.94	69.40	74.31	79.77	78.03	74.68	71.30	64.55	54.10	37.34
1523.1	88.81	86.01	83.5	83.08	69.43	74.48	79.41	77.49	74.22	71.37	64.69	54.38	37.88
1505.7	88.21	85.31	82.9	82.02	69.19	74.15	78.57	76.79	73.38	71.24	64.60	54.38	38.03
1500.7	87.51	84.61	82.2	82.65	68.93	74.04	77.74	76.20	72.34	70.21	63.59	53.39	37.10
1505.7	87.01	84.11	81.7	82.15	68.15	73.90	77.00	76.65	71.97	70.05	63.41	53.19	36.94
1523.1	86.11	83.31	81.1	81.54	67.24	73.01	76.00	74.97	71.24	64.75	62.07	51.76	35.26
1552.9	85.61	82.81	80.6	80.84	65.09	72.12	74.53	74.46	70.62	64.53	61.78	51.32	34.56
1596.3	85.91	82.51	80.0	80.18	65.11	71.33	75.25	73.56	71.40	70.30	63.45	52.79	35.64
1655.1	85.91	80.71	78.3	59.42	64.25	69.47	73.26	72.03	69.77	68.20	61.20	50.26	32.59

RUN NUMBER	520.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-4.100
PRIMARY TEMPERATURE (IN)	527.000
SECONDARY TEMPERATURE (IN)	536.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	9.700
VELOCITY RATIO	.949
PRIMARY VELOCITY (FT/SEC)	898.102
MASS FLOW RATIO	6.033
PRIMARY MASS FLOW (LB/SEC)	.342
THRUST (LBS)	75.000
ENVIRONMENTAL TEMPERATURE (IN)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	66.000
CALIBRATION FACTOR (MV TO OY/50 CH)	.050
INSTRUMENTATION NOISE FLOOR (DB)	63.550

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	3.39891E+00	135.5	THRUST	POWER LEVEL (DB)
			10000	154.8
500	1.96679E-01	122.9	20000	154.8
1000	6.13380E-01	127.9	40000	162.8
2000	8.78795E-01	129.4	80000	165.8
4000	7.94844E-01	129.0		
8000	6.28435E-01	127.9		
16000	3.36695E-01	125.3		
31500	1.56076E-01	121.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	102.2	105.3	102.1	96.9	91.7	86.8	83.1	108.7
20.0	101.4	105.5	104.2	98.9	94.0	88.6	84.7	109.9
25.0	100.6	106.1	105.6	100.9	96.2	90.8	87.0	110.3
30.0	99.9	105.0	105.5	102.2	97.5	92.5	88.6	110.1
35.0	97.4	103.4	105.2	103.1	99.1	94.4	90.5	109.7
40.0	95.6	100.8	103.6	102.9	100.3	95.9	92.1	108.7
45.0	93.3	99.2	102.3	102.7	100.9	97.0	92.9	108.2
50.0	91.5	97.1	100.7	101.5	100.5	96.9	93.1	107.0
55.0	90.1	96.1	99.7	100.8	100.4	97.5	93.8	106.5
60.0	89.7	94.5	99.0	100.2	100.0	97.4	93.8	106.0
65.0	90.3	94.5	98.6	99.7	99.4	96.9	93.7	105.6
70.0	89.6	94.4	97.7	99.3	99.1	96.8	93.6	105.2
75.0	89.9	93.9	97.8	98.8	98.5	96.4	93.5	104.9
80.0	89.5	93.9	96.8	98.0	97.9	95.9	92.8	104.2
85.0	88.7	93.2	96.5	97.6	97.6	95.7	92.9	103.9
90.0	87.9	92.5	96.7	97.6	97.6	95.8	92.6	103.8
95.0	87.3	92.1	95.7	96.8	97.0	95.3	92.3	103.2
100.0	87.1	91.6	95.2	96.4	96.8	95.1	91.8	102.8
105.0	86.5	91.3	94.9	96.3	96.5	95.0	91.6	102.6
110.0	86.0	90.5	94.8	96.1	96.7	94.8	91.7	102.5
115.0	85.7	89.8	94.0	95.7	96.0	94.5	91.3	102.0

MODEL THRUST = 75.000 FULL SCALE THRUST = 20000.000

L.	PND8.	OASPL	35.6	OCTAVE 61.2	BAND 122.5	SOUND 244.9	PRESSURE 489.9	LEVELS 979.8	1929.0	3857.9	7654.7	15309.3	30618.6
8795.4	74.11 73.97	78.0	71.77	74.75	71.35	65.44	58.41	48.83	34.67	9.52	-34.85	-109.47	-223.21
4385.7	79.41 79.31	81.6	73.05	78.41	75.92	70.15	63.83	54.86	43.10	23.34	-10.97	-68.17	-154.07
3549.3	83.41 83.11	83.9	74.43	79.90	79.21	74.15	68.24	59.99	49.76	33.20	4.86	-42.00	-112.42
3080.0	85.81 85.31	85.1	75.15	80.23	80.65	76.94	71.31	63.86	54.57	40.10	15.69	-24.39	-84.71
2615.2	87.91 87.31	85.7	73.84	79.81	81.51	79.09	74.26	67.50	58.89	45.90	24.23	-11.09	-64.06
2333.6	89.01 88.31	85.7	73.03	78.26	80.90	80.00	76.66	70.31	62.34	50.42	30.76	-1.08	-48.67
2121.3	90.01 89.11	85.8	71.60	77.47	80.48	80.66	78.13	72.48	64.61	53.50	35.36	6.14	-37.39
1950.1	90.11 89.01	85.3	70.48	76.03	79.56	80.20	78.47	73.30	65.97	55.49	38.51	11.31	-29.10
1831.2	90.71 89.51	85.4	69.61	75.62	79.13	80.01	79.04	74.68	67.65	57.65	41.58	15.95	-22.04
1732.1	91.01 89.61	85.3	69.75	74.52	78.92	79.91	79.22	75.17	69.51	58.90	43.53	19.13	-14.97
1655.1	91.11 89.71	85.3	70.70	74.92	78.99	79.90	79.06	75.20	69.00	59.67	44.86	21.40	-13.22
1596.3	91.21 89.71	85.2	70.39	75.15	76.35	79.78	79.11	75.50	69.42	60.32	45.92	23.20	-10.30
1552.9	91.11 89.51	85.1	70.91	74.39	78.73	79.54	78.71	75.39	69.72	60.78	46.70	24.50	-4.17
1523.1	90.91 89.11	84.6	70.65	75.01	77.67	78.92	78.28	75.07	69.26	60.44	46.56	24.74	-7.36
1505.7	90.51 88.91	84.4	69.99	74.48	77.67	78.62	78.11	75.04	69.49	60.74	46.99	25.38	-6.39
1500.0	90.51 88.91	84.4	69.18	73.73	77.49	78.64	78.18	75.13	69.21	60.47	46.77	25.23	-6.43
1505.7	89.81 88.21	83.7	68.61	73.36	76.46	77.81	77.55	74.63	68.89	60.14	46.39	24.78	-6.99
1523.1	89.41 87.81	83.2	68.22	72.73	76.32	77.31	77.24	74.30	68.99	59.46	46.59	23.77	-6.36
1557.9	88.91 87.41	82.8	67.46	72.25	75.78	76.74	76.78	73.98	68.03	59.09	45.01	22.81	-6.46
1596.3	88.01 87.01	82.4	66.79	71.77	75.45	76.59	76.68	73.52	67.46	58.36	43.97	21.24	-12.76
1655.1	87.61 86.11	81.5	66.15	70.19	74.34	75.43	75.67	72.79	66.58	57.25	42.44	18.98	-11.64

RUN NUMBER	530.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	532.000
SECONDARY TEMPERATURE (R)	530.000
PRIMARY PRESSURE RATIO	1.322
AREA RATIO	9.744
VELOCITY RATIO	1.469
PRIMARY VELOCITY (FT/SEC)	701.771
MASS FLOW RATIO	9.159
PRIMARY MASS FLOW (LB/SEC)	3.17
THRUST (LBS)	102.000
ENVIRONMENTAL TEMPERATURE (R)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	68.000
CALIBRATION FACTOR (MV TO DY/50 CM)	100
INSTRUMENTATION NOISE FLOOR (DB)	69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL(SCALED FOR THRUST)
OVERALL	1.19634E+01	140.8	THRUST POWER LEVEL(DB)
			10000 140.7
500	5.66071E-01	127.5	20000 143.7
1000	2.13486E+00	133.3	40000 144.7
2000	2.94450E+00	134.7	60000 149.7
4000	2.40982E+00	133.8	
6000	2.09460E+00	133.2	
10000	1.22234E+00	130.9	
31500	5.75920E-01	127.6	

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 10000	31500	OVERALL
15.0	107.1	111.1	109.4	103.0	98.5	93.5	89.1	110.7
20.0	106.9	112.3	110.8	105.6	101.2	95.9	90.4	110.6
25.0	106.0	112.3	111.8	106.7	102.8	97.6	93.5	110.6
30.0	104.2	111.1	111.8	108.0	104.0	99.8	94.9	110.1
35.0	102.3	108.7	110.9	108.6	105.2	100.6	96.3	110.3
40.0	99.8	106.4	109.2	109.0	104.5	102.0	97.8	110.5
45.0	97.2	103.8	107.4	107.8	104.6	102.7	98.4	113.3
50.0	95.3	101.5	105.5	106.7	106.1	103.0	99.2	112.3
55.0	94.7	100.3	104.2	105.3	105.2	103.0	99.0	111.4
60.0	94.3	99.4	103.3	104.5	104.9	103.0	100.0	110.0
65.0	94.5	99.1	102.4	103.4	104.1	100.3	99.4	110.1
70.0	94.2	98.0	101.7	103.1	103.4	101.9	98.0	109.5
75.0	94.2	98.1	101.3	102.6	102.8	101.8	98.8	109.2
80.0	93.1	97.7	100.8	102.5	102.8	101.4	98.6	108.9
85.0	92.5	96.8	100.3	101.9	102.4	101.4	98.3	108.5
90.0	92.5	96.2	99.6	101.1	102.2	100.6	98.2	108.1
95.0	91.1	96.2	99.3	100.8	101.9	100.6	97.7	107.7
100.0	90.3	95.6	98.2	100.3	102.0	100.6	97.6	107.5
105.0	89.8	94.9	98.7	100.2	102.1	100.4	97.9	107.4
110.0	89.0	94.0	98.0	99.6	102.4	100.3	98.8	107.2
115.0	89.0	93.5	97.9	99.1	102.4	100.2	98.0	106.9

MODEL THRUST = 102.000 FULL SCALE THRUST = 20000.000

L	PHOS	OASPL	35.7	OCTAVE 71.4	BAND 142.8	SOUND 285.7	PRESSURE 571.3	LEVELS 1142.6	2240.5	4480.1	8926.6	17853.6	35707.1
0705.4	80.8	80.7	82.6	75.29	74.18	77.74	84.48	83.13	87.44	94.89	98.95	103.10	107.172
0705.7	45.61	45.51	46.3	77.57	77.49	81.19	75.37	69.19	59.52	44.81	22.53	-10.88	-74.53
0705.9	40.47	40.41	40.5	78.62	78.49	84.60	78.42	72.78	64.34	40.64	33.01	2.10	-40.68
0706.0	41.01	40.71	40.7	78.16	78.02	85.54	81.26	76.68	68.44	47.67	41.29	13.44	-30.28
0705.2	42.77	42.21	40.9	77.70	77.80	85.87	83.12	78.68	71.59	61.70	47.09	22.64	-16.07
0705.6	44.01	43.51	40.6	75.35	75.51	85.14	84.58	81.16	74.60	64.44	51.62	20.68	-5.34
0705.1	43.1	43.61	40.5	74.17	74.72	84.78	84.78	82.70	76.73	67.78	55.36	35.14	2.90
0705.1	43.1	43.51	40.0	72.93	74.18	83.00	83.45	82.55	77.49	69.56	57.89	38.40	9.00
0705.2	44.41	43.61	40.6	72.97	74.54	82.12	83.12	83.12	78.12	71.32	60.19	42.33	10.17
0705.1	44.71	43.61	40.5	72.04	74.04	81.88	82.45	82.44	76.47	72.25	61.56	40.50	17.70
0705.1	44.51	43.61	40.2	71.41	74.13	81.62	82.50	82.15	78.11	72.33	61.46	45.55	10.40
0705.3	44.1	43.11	40.4	71.54	74.42	81.50	82.17	81.52	74.13	72.36	62.26	46.33	21.40
0705.4	44.71	43.07	40.7	71.83	74.77	80.40	81.50	81.51	74.60	72.78	62.80	47.14	22.86
0705.1	44.1	43.11	40.4	72.41	74.52	80.52	81.40	81.42	74.40	72.72	62.96	47.50	23.67
0705.7	44.01	42.71	40.4	72.61	74.74	80.40	81.60	81.61	74.62	72.63	62.44	47.72	24.83
0705.0	43.41	42.61	40.9	72.64	74.16	79.44	82.79	81.77	74.64	72.44	62.43	47.74	24.14
0705.7	43.41	42.61	40.6	71.87	74.13	79.13	80.44	80.40	74.33	71.84	62.40	47.07	23.30
0705.1	43.11	41.71	40.2	70.08	74.73	79.42	79.44	81.41	73.07	71.72	61.44	46.40	22.07
0705.4	43.41	41.51	40.7	69.40	74.55	79.33	79.33	80.44	73.45	71.43	61.74	46.13	21.70
0705.4	42.31	41.11	40.4	68.14	73.35	77.24	74.43	81.44	72.16	70.23	60.14	46.18	19.29
0705.1	41.51	40.41	40.7	68.06	72.54	76.40	77.34	80.45	70.69	68.02	58.57	46.16	16.40

RUN NUMBER	=	531.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	-4.100
PRIMARY TEMPERATURE (RI)	=	523.000
SECONDARY TEMPERATURE (RI)	=	528.000
PRIMARY PRESSURE RATIO	=	3.000
AREA RATIO	=	1.000
VELOCITY RATIO	=	.373
PRIMARY VELOCITY (FT/SEC)	=	1313.527
MASS FLOW RATIO	=	.619
PRIMARY MASS FLOW (LB/SEC)	=	.617
THRUST (LBS)	=	25.560
ENVIRONMENTAL TEMPERATURE (RI)	=	515.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.330
ENVIRONMENTAL HUMIDITY (PER CENT)	=	65.000
CALIBRATION FACTOR (MV TO DY/50 CM)	=	.071
INSTRUMENTATION NOISE FLOOR (DB)	=	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.36403E+00	136.0	THRUST	POWER LEVEL (DB)
500	1.61212E-02	112.1	10000	166.0
1000	1.26883E-01	121.0	20000	167.0
2000	7.39287E-01	126.7	40000	170.0
4000	1.70754E+00	132.3	80000	173.0
8000	2.11002E+00	133.2		
16000	1.19773E+00	130.6		
31500	5.57324E-01	127.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.1	101.0	107.0	109.1	107.5	103.4	94.9	113.5
30.0	90.4	100.0	107.0	109.0	108.3	103.3	95.2	113.2
45.0	89.0	99.0	106.0	108.1	108.0	103.7	97.0	113.3
60.0	88.4	97.0	105.4	107.7	108.0	103.1	94.0	113.0
75.0	86.3	96.1	104.0	106.0	108.4	103.3	94.2	113.3
90.0	85.1	93.5	102.0	105.0	107.7	102.2	92.5	112.0
105.0	82.1	90.0	99.2	100.3	106.3	102.5	94.5	110.0
120.0	80.0	88.0	98.0	101.0	104.7	102.4	94.0	109.0
135.0	79.0	87.5	95.2	100.2	103.0	102.1	90.3	107.0
150.0	77.3	86.0	94.4	99.0	102.3	101.1	88.4	107.0
165.0	76.0	85.0	93.0	98.4	101.7	100.3	89.2	106.0
180.0	74.0	84.3	92.0	97.0	101.1	100.0	88.0	105.0
195.0	73.0	84.0	92.2	97.0	100.0	99.7	86.0	105.0
210.0	72.0	83.5	91.0	97.0	100.0	99.3	85.2	105.2
225.0	71.0	82.0	90.0	96.0	100.0	99.0	84.9	105.0
240.0	70.0	81.0	89.2	95.1	100.0	98.0	84.0	105.0
255.0	69.0	80.0	88.0	94.0	100.0	97.5	83.0	104.0
270.0	68.0	79.0	87.0	93.0	100.0	97.0	82.0	104.0
285.0	67.0	78.0	86.0	92.0	100.0	96.5	81.0	104.0
300.0	66.0	77.0	85.0	91.0	100.0	96.0	80.0	104.0
315.0	65.0	76.0	84.0	90.0	100.0	95.5	79.0	104.0
330.0	64.0	75.0	83.0	89.0	100.0	95.0	78.0	104.0
345.0	63.0	74.0	82.0	88.0	100.0	94.5	77.0	104.0
360.0	62.0	73.0	81.0	87.0	100.0	94.0	76.0	104.0

MODEL THRUST = 25.560 FULL SCALE THRUST = 20000.000

L	500	OCTAVE BAND 1000	2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
000.0	89.0	97.0	103.0	105.0	103.0	99.0	90.0	110.0
30.0	87.0	95.0	101.0	103.0	101.0	97.0	88.0	108.0
60.0	85.0	93.0	99.0	101.0	99.0	95.0	86.0	106.0
90.0	83.0	91.0	97.0	99.0	97.0	93.0	84.0	104.0
120.0	81.0	89.0	95.0	97.0	95.0	91.0	82.0	102.0
150.0	79.0	87.0	93.0	95.0	93.0	89.0	80.0	100.0
180.0	77.0	85.0	91.0	93.0	91.0	87.0	78.0	98.0
210.0	75.0	83.0	89.0	91.0	89.0	85.0	76.0	96.0
240.0	73.0	81.0	87.0	89.0	87.0	83.0	74.0	94.0
270.0	71.0	79.0	85.0	87.0	85.0	81.0	72.0	92.0
300.0	69.0	77.0	83.0	85.0	83.0	79.0	70.0	90.0
330.0	67.0	75.0	81.0	83.0	81.0	77.0	68.0	88.0
360.0	65.0	73.0	79.0	81.0	79.0	75.0	66.0	86.0
390.0	63.0	71.0	77.0	79.0	77.0	73.0	64.0	84.0
420.0	61.0	69.0	75.0	77.0	75.0	71.0	62.0	82.0
450.0	59.0	67.0	73.0	75.0	73.0	69.0	60.0	80.0
480.0	57.0	65.0	71.0	73.0	71.0	67.0	58.0	78.0
510.0	55.0	63.0	69.0	71.0	69.0	65.0	56.0	76.0
540.0	53.0	61.0	67.0	69.0	67.0	63.0	54.0	74.0
570.0	51.0	59.0	65.0	67.0	65.0	61.0	52.0	72.0
600.0	49.0	57.0	63.0	65.0	63.0	59.0	50.0	70.0
630.0	47.0	55.0	61.0	63.0	61.0	57.0	48.0	68.0
660.0	45.0	53.0	59.0	61.0	59.0	55.0	46.0	66.0
690.0	43.0	51.0	57.0	59.0	57.0	53.0	44.0	64.0
720.0	41.0	49.0	55.0	57.0	55.0	51.0	42.0	62.0
750.0	39.0	47.0	53.0	55.0	53.0	49.0	40.0	60.0
780.0	37.0	45.0	51.0	53.0	51.0	47.0	38.0	58.0
810.0	35.0	43.0	49.0	51.0	49.0	45.0	36.0	56.0
840.0	33.0	41.0	47.0	49.0	47.0	43.0	34.0	54.0
870.0	31.0	39.0	45.0	47.0	45.0	41.0	32.0	52.0
900.0	29.0	37.0	43.0	45.0	43.0	39.0	30.0	50.0
930.0	27.0	35.0	41.0	43.0	41.0	37.0	28.0	48.0
960.0	25.0	33.0	39.0	41.0	39.0	35.0	26.0	46.0
990.0	23.0	31.0	37.0	39.0	37.0	33.0	24.0	44.0
1020.0	21.0	29.0	35.0	37.0	35.0	31.0	22.0	42.0
1050.0	19.0	27.0	33.0	35.0	33.0	29.0	20.0	40.0
1080.0	17.0	25.0	31.0	33.0	31.0	27.0	18.0	38.0
1110.0	15.0	23.0	29.0	31.0	29.0	25.0	16.0	36.0
1140.0	13.0	21.0	27.0	29.0	27.0	23.0	14.0	34.0
1170.0	11.0	19.0	25.0	27.0	25.0	21.0	12.0	32.0
1200.0	9.0	17.0	23.0	25.0	23.0	19.0	10.0	30.0
1230.0	7.0	15.0	21.0	23.0	21.0	17.0	8.0	28.0
1260.0	5.0	13.0	19.0	21.0	19.0	15.0	6.0	26.0
1290.0	3.0	11.0	17.0	19.0	17.0	13.0	4.0	24.0
1320.0	1.0	9.0	15.0	17.0	15.0	11.0	2.0	22.0

RUN NUMBER	932.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	4.100
PRIMARY TEMPERATURE (R)	922.000
SECONDARY TEMPERATURE (R)	926.000
PRIMARY PRESSURE RATIO	2.094
AREA RATIO	1.000
VELOCITY RATIO	.852
PRIMARY VELOCITY (FT/SEC)	1694.844
MASS FLOW RATIO	1.100
PRIMARY MASS FLOW (LB/SEC)	.414
THRUST (LBS)	33.000
ENVIRONMENTAL TEMPERATURE (R)	915.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.330
ENVIRONMENTAL HUMIDITY (PER CENT)	67.500
CALIBRATION FACTOR (IN. TO DY/SQ CM)	.063
INSTRUMENTATION NOISE FLOOR (DB)	65.560

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	3.0037E+00	137.5	THRUST POWER LEVEL (DB)
500	3.8033E+02	115.4	10000 142.3
1000	2.5334E+01	124.0	20000 143.4
2000	4.7402E+01	126.0	40000 149.4
4000	1.3772E+00	131.4	80000 177.6
8000	1.5133E+00	131.6	
16000	9.1949E+01	129.6	
31500	5.8446E+01	127.7	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH SCALE

FREQ (DB)	900	OCTAVE 1250	BAND 2000	SOUND 4000	PRESSURE 6000	LEVELS 10000	31500	OVERALL
10.0	88.0	123.9	107.7	100.0	105.0	100.3	94.7	112.0
15.0	89.0	123.3	106.9	100.0	106.0	101.7	95.3	113.0
20.0	90.0	122.8	106.0	100.0	106.0	102.0	95.9	113.7
25.0	91.0	121.2	105.5	100.0	106.0	102.0	96.0	113.0
30.0	92.0	120.6	105.7	100.0	106.0	102.0	96.0	113.0
35.0	93.0	120.0	105.7	100.0	106.0	102.0	96.0	113.0
40.0	94.0	119.4	105.7	100.0	106.0	102.0	96.0	113.0
45.0	95.0	118.8	105.7	100.0	106.0	102.0	96.0	113.0
50.0	96.0	118.2	105.7	100.0	106.0	102.0	96.0	113.0
55.0	97.0	117.6	105.7	100.0	106.0	102.0	96.0	113.0
60.0	98.0	117.0	105.7	100.0	106.0	102.0	96.0	113.0
65.0	99.0	116.4	105.7	100.0	106.0	102.0	96.0	113.0
70.0	100.0	115.8	105.7	100.0	106.0	102.0	96.0	113.0
75.0	101.0	115.2	105.7	100.0	106.0	102.0	96.0	113.0
80.0	102.0	114.6	105.7	100.0	106.0	102.0	96.0	113.0
85.0	103.0	114.0	105.7	100.0	106.0	102.0	96.0	113.0
90.0	104.0	113.4	105.7	100.0	106.0	102.0	96.0	113.0
95.0	105.0	112.8	105.7	100.0	106.0	102.0	96.0	113.0
100.0	106.0	112.2	105.7	100.0	106.0	102.0	96.0	113.0
105.0	107.0	111.6	105.7	100.0	106.0	102.0	96.0	113.0
110.0	108.0	111.0	105.7	100.0	106.0	102.0	96.0	113.0
115.0	109.0	110.4	105.7	100.0	106.0	102.0	96.0	113.0
120.0	110.0	109.8	105.7	100.0	106.0	102.0	96.0	113.0
125.0	111.0	109.2	105.7	100.0	106.0	102.0	96.0	113.0
130.0	112.0	108.6	105.7	100.0	106.0	102.0	96.0	113.0
135.0	113.0	108.0	105.7	100.0	106.0	102.0	96.0	113.0
140.0	114.0	107.4	105.7	100.0	106.0	102.0	96.0	113.0
145.0	115.0	106.8	105.7	100.0	106.0	102.0	96.0	113.0
150.0	116.0	106.2	105.7	100.0	106.0	102.0	96.0	113.0
155.0	117.0	105.6	105.7	100.0	106.0	102.0	96.0	113.0
160.0	118.0	105.0	105.7	100.0	106.0	102.0	96.0	113.0
165.0	119.0	104.4	105.7	100.0	106.0	102.0	96.0	113.0
170.0	120.0	103.8	105.7	100.0	106.0	102.0	96.0	113.0
175.0	121.0	103.2	105.7	100.0	106.0	102.0	96.0	113.0
180.0	122.0	102.6	105.7	100.0	106.0	102.0	96.0	113.0
185.0	123.0	102.0	105.7	100.0	106.0	102.0	96.0	113.0
190.0	124.0	101.4	105.7	100.0	106.0	102.0	96.0	113.0
195.0	125.0	100.8	105.7	100.0	106.0	102.0	96.0	113.0
200.0	126.0	100.2	105.7	100.0	106.0	102.0	96.0	113.0
205.0	127.0	99.6	105.7	100.0	106.0	102.0	96.0	113.0
210.0	128.0	99.0	105.7	100.0	106.0	102.0	96.0	113.0
215.0	129.0	98.4	105.7	100.0	106.0	102.0	96.0	113.0
220.0	130.0	97.8	105.7	100.0	106.0	102.0	96.0	113.0
225.0	131.0	97.2	105.7	100.0	106.0	102.0	96.0	113.0
230.0	132.0	96.6	105.7	100.0	106.0	102.0	96.0	113.0
235.0	133.0	96.0	105.7	100.0	106.0	102.0	96.0	113.0
240.0	134.0	95.4	105.7	100.0	106.0	102.0	96.0	113.0
245.0	135.0	94.8	105.7	100.0	106.0	102.0	96.0	113.0
250.0	136.0	94.2	105.7	100.0	106.0	102.0	96.0	113.0
255.0	137.0	93.6	105.7	100.0	106.0	102.0	96.0	113.0
260.0	138.0	93.0	105.7	100.0	106.0	102.0	96.0	113.0
265.0	139.0	92.4	105.7	100.0	106.0	102.0	96.0	113.0
270.0	140.0	91.8	105.7	100.0	106.0	102.0	96.0	113.0
275.0	141.0	91.2	105.7	100.0	106.0	102.0	96.0	113.0
280.0	142.0	90.6	105.7	100.0	106.0	102.0	96.0	113.0
285.0	143.0	90.0	105.7	100.0	106.0	102.0	96.0	113.0
290.0	144.0	89.4	105.7	100.0	106.0	102.0	96.0	113.0
295.0	145.0	88.8	105.7	100.0	106.0	102.0	96.0	113.0
300.0	146.0	88.2	105.7	100.0	106.0	102.0	96.0	113.0
305.0	147.0	87.6	105.7	100.0	106.0	102.0	96.0	113.0
310.0	148.0	87.0	105.7	100.0	106.0	102.0	96.0	113.0
315.0	149.0	86.4	105.7	100.0	106.0	102.0	96.0	113.0
320.0	150.0	85.8	105.7	100.0	106.0	102.0	96.0	113.0
325.0	151.0	85.2	105.7	100.0	106.0	102.0	96.0	113.0
330.0	152.0	84.6	105.7	100.0	106.0	102.0	96.0	113.0
335.0	153.0	84.0	105.7	100.0	106.0	102.0	96.0	113.0
340.0	154.0	83.4	105.7	100.0	106.0	102.0	96.0	113.0
345.0	155.0	82.8	105.7	100.0	106.0	102.0	96.0	113.0
350.0	156.0	82.2	105.7	100.0	106.0	102.0	96.0	113.0
355.0	157.0	81.6	105.7	100.0	106.0	102.0	96.0	113.0
360.0	158.0	81.0	105.7	100.0	106.0	102.0	96.0	113.0
365.0	159.0	80.4	105.7	100.0	106.0	102.0	96.0	113.0
370.0	160.0	79.8	105.7	100.0	106.0	102.0	96.0	113.0
375.0	161.0	79.2	105.7	100.0	106.0	102.0	96.0	113.0
380.0	162.0	78.6	105.7	100.0	106.0	102.0	96.0	113.0
385.0	163.0	78.0	105.7	100.0	106.0	102.0	96.0	113.0
390.0	164.0	77.4	105.7	100.0	106.0	102.0	96.0	113.0
395.0	165.0	76.8	105.7	100.0	106.0	102.0	96.0	113.0
400.0	166.0	76.2	105.7	100.0	106.0	102.0	96.0	113.0
405.0	167.0	75.6	105.7	100.0	106.0	102.0	96.0	113.0
410.0	168.0	75.0	105.7	100.0	106.0	102.0	96.0	113.0
415.0	169.0	74.4	105.7	100.0	106.0	102.0	96.0	113.0
420.0	170.0	73.8	105.7	100.0	106.0	102.0	96.0	113.0
425.0	171.0	73.2	105.7	100.0	106.0	102.0	96.0	113.0
430.0	172.0	72.6	105.7	100.0	106.0	102.0	96.0	113.0
435.0	173.0	72.0	105.7	100.0	106.0	102.0	96.0	113.0
440.0	174.0	71.4	105.7	100.0	106.0	102.0	96.0	113.0
445.0	175.0	70.8	105.7	100.0	106.0	102.0	96.0	113.0
450.0	176.0	70.2	105.7	100.0	106.0	102.0	96.0	113.0
455.0	177.0	69.6	105.7	100.0	106.0	102.0	96.0	113.0
460.0	178.0	69.0	105.7	100.0	106.0	102.0	96.0	113.0
465.0	179.0	68.4	105.7	100.0	106.0	102.0	96.0	113.0
470.0	180.0	67.8	105.7	100.0	106.0	102.0	96.0	113.0
475.0	181.0	67.2	105.7	100.0	106.0	102.0	96.0	113.0
480.0	182.0	66.6	105.7	100.0	106.0	102.0	96.0	113.0
485.0	183.0	66.0	105.7	100.0	106.0	102.0	96.0	113.0
490.0	184.0	65.4	105.7	100.0	106.0	102.0	96.0	113.0
495.0	185.0	64.8	105.7	100.0	106.0	102.0	96.0	113.0
500.0	186.0	64.2	105.7	100.0	106.0	102.0	96.0	113.0
505.0	187.0	63.6	105.7	100.0	106.0	102.0	96.0	113.0
510.0	188.0	63.0	105.7	100.0	106.0	102.0	96.0	113.0
515.0	189.0	62.4	105.7	100.0	106.0	102.0	96.0	113.0
520.0	190.0	61.8	105.7	100.0	106.0	102.0	96.0	113.0
525.0	191.0	61.2	105.7	100.0	106.0	102.0	96.0	113.0
530.0	192.0	60.6	105.7	100.0	106.0	102.0	96.0	113.0
535.0	193.0	60.0	105.7	100.0	106.0	102.0	96.0	113.0
540.0	194.0	59.4	105.7	100.0	106.0	102.0	96.0	113.0
545.0	195.0	58.8	105.7	100.0	106.0	102.0	96.0	113.0
550.0	196.0	58.2	105.7	100.0	106.0	102.0	96.0	113.0
555.0	197.0	57.6	105.7	100.0	106.0	102.0	96.0	113.0
560.0	198.0	57.0	105.7	100.0	106.0	102.0	96.0	113.0
565.0	199.0	56.4	105.7	100.0	106.0	102.0	96.0	113.0
570.0	200.0	55.8	105.7	100.0	106.0	102.0	96.0	113.0
575.0	201.0	55.2	105.7	100.0	106.0	102.0	96.0	113.0
580.0	202.0	54.6	105.7	100.0	106.0	102.0	96.0	113.0
585.0	203.0	54.0	105.7	100.0	106.0	102.0	96.0	113.0
590.0	204.0	53.4	105.7	100.0	106.0	102.0	96.0	113.0
595.0	205.0	52.8	105.7	100.0	106.0	102.0	96.0	113.0

RUN NUMBER	533.00 (767.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-4.100
PRIMARY TEMPERATURE (RI)	527.000
SECONDARY TEMPERATURE (RI)	532.000
PRIMARY PRESSURE RATIO	1.051
AREA RATIO	1.000
VELOCITY RATIO	1.020
PRIMARY VELOCITY (FT/SEC)	1012.794
MASS FLOW RATIO	1.273
PRIMARY MASS FLOW (LB/SEC)	4.420
THRUST (LBS)	35.000
ENVIRONMENTAL TEMPERATURE (RI)	519.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.330
ENVIRONMENTAL HUMIDITY (PER CENT)	67.500
CALIBRATION FACTOR (MV TO DY/50 CM)	.079
INSTRUMENTATION NOISE FLOOR (DB)	67.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	7.19691E+00	138.6	THRUST	POWER LEVEL (DB)
			10000	163.1
500	5.59244E-02	117.5	20000	166.1
1000	3.66566E-01	125.6	40000	169.2
2000	1.33808E+00	131.3	80000	172.2
4000	1.75505E+00	132.4		
8000	1.7777E+00	132.5		
16000	1.08063E+00	130.3		
31500	8.22970E-01	129.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.1	105.6	109.5	108.8	106.9	101.5	95.6	114.4
20.0	97.0	105.6	110.4	109.1	107.3	102.4	97.4	114.9
25.0	95.4	104.1	109.7	109.3	107.5	103.1	98.3	114.7
30.0	94.2	102.9	108.8	109.1	107.7	103.5	98.9	114.3
35.0	92.0	100.5	107.6	108.7	107.7	104.0	99.5	113.8
40.0	88.9	98.2	104.7	107.2	107.1	103.9	100.2	112.4
45.0	86.7	96.9	101.8	104.9	106.1	103.6	101.0	111.0
50.0	85.3	92.8	99.5	103.3	105.1	103.5	101.1	110.0
55.0	84.0	91.6	98.3	102.1	104.5	103.5	102.4	109.6
60.0	83.8	91.3	97.1	100.6	102.8	102.2	101.9	108.4
65.0	83.4	90.7	96.4	99.8	101.8	101.0	101.9	107.7
70.0	83.6	90.6	95.9	98.9	100.7	100.1	100.7	106.7
75.0	83.4	89.9	95.4	98.7	99.8	99.5	99.8	106.0
80.0	82.6	89.2	94.6	97.9	99.3	98.9	99.3	105.4
85.0	82.4	88.8	94.2	97.6	98.9	98.4	98.9	105.0
90.0	82.1	88.6	93.8	97.1	98.4	97.9	98.4	104.5
95.0	81.8	87.9	93.2	96.5	98.0	97.3	98.0	104.0
100.0	81.0	87.3	92.8	95.9	97.6	96.9	97.6	103.6
105.0	80.0	86.8	92.4	96.1	97.2	96.3	97.2	103.2
110.0	80.0	85.9	92.0	95.6	96.8	96.0	96.8	102.8
115.0	79.6	85.0	91.0	95.2	96.5	95.7	96.5	102.4

MODEL THRUST = 35.000 FULL SCALE THRUST = 20000.000

L.	PNDB	OASPL	OCTAVE 20.0	BAND 41.0	SOUND 83.7	PRESSURE 167.3	LEVELS 334.7	669.3	1317.7	2635.5	5229.1	10458.3	20914.5
3799.0	47.21	88.91	88.6	70.93	70.47	82.24	81.14	78.13	89.85	57.30	39.38	6.91	-49.98
4385.7	41.11	90.51	89.6	72.25	80.43	85.56	84.03	81.37	74.26	64.26	49.95	24.67	-19.11
3549.3	43.51	92.71	91.2	72.47	81.25	86.74	86.13	83.43	77.49	68.60	56.45	35.41	-5.59
3000.0	45.41	94.31	92.3	72.80	81.49	87.33	87.42	85.40	79.81	71.67	60.93	42.69	11.79
2615.2	46.81	95.51	93.0	71.78	80.30	87.32	88.24	86.74	81.77	74.24	64.49	48.21	20.89
2333.6	47.31	95.71	92.5	69.67	78.97	85.36	87.75	87.21	82.83	76.48	67.46	52.60	27.91
2121.3	47.41	95.51	91.8	68.25	76.50	83.31	86.34	87.00	83.80	78.53	70.06	56.28	33.55
1958.1	47.51	95.31	91.4	67.55	75.13	81.77	85.39	86.83	84.29	79.59	71.54	58.49	37.38
1831.7	48.11	95.51	91.6	66.92	74.45	81.09	84.78	86.85	84.97	81.70	73.99	61.68	41.65
1732.1	48.41	94.61	90.8	67.18	74.64	80.40	83.45	85.48	84.26	81.92	74.46	62.66	43.55
1655.7	47.61	94.71	90.5	67.12	74.42	80.08	83.38	85.12	83.46	82.51	75.24	63.83	45.43
1596.3	47.01	94.01	89.9	67.67	74.63	79.94	82.77	84.36	82.95	81.69	74.58	63.47	45.62
1552.0	46.51	93.51	89.5	67.68	74.19	79.71	82.44	83.68	82.62	81.11	74.11	63.22	45.78
1523.1	46.31	93.11	89.1	67.11	73.67	79.00	82.25	83.36	82.23	80.85	73.92	63.10	46.02
1505.7	46.01	92.91	88.8	66.95	73.13	78.71	82.05	83.07	81.83	80.60	73.71	63.06	46.06
1500.0	45.61	92.41	88.3	66.72	73.23	78.33	81.81	82.80	81.38	80.10	73.23	62.61	45.66
1505.7	45.11	91.91	87.9	66.41	72.49	77.78	80.97	82.14	80.70	79.70	72.81	62.16	45.18
1523.1	45.51	91.31	87.2	65.42	71.74	77.22	80.27	81.64	80.10	79.11	72.18	61.45	44.28
1552.0	43.41	90.71	86.7	64.27	71.17	76.46	80.27	81.83	79.41	78.49	71.14	60.60	43.16
1596.3	43.01	90.01	86.0	64.03	70.01	76.12	79.54	80.43	78.83	77.74	70.64	59.53	41.69
1655.7	42.21	89.21	85.3	63.36	68.71	74.72	78.75	79.78	78.15	77.04	69.81	58.40	40.81

NUM NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	534.000
PRIMARY TEMPERATURE (R)	54.100
SECONDARY TEMPERATURE (R)	524.000
PRIMARY PRESSURE RATIO	530.000
AREA RATIO	3.060
VELOCITY RATIO	2.007
PRIMARY VELOCITY (FT/SEC)	372
MASS FLOW RATIO	1319.791
PRIMARY MASS FLOW (LB/SEC)	6.883
THRUST (LBS)	470
ENVIRONMENTAL TEMPERATURE (R)	28.000
ENVIRONMENTAL PRESSURE (IN.HG)	517.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.330
CALIBRATION FACTOR (MV TO CY/50 CM)	63.500
INSTRUMENTATION NOISE FLOOR (DB)	.071
	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	7.7385E+00	119.9	10000	164.4
500	2.08170E-02	113.2	20000	167.4
1000	1.63032E-01	122.1	40000	170.4
2000	8.64304E-01	129.4	80000	173.4
4000	2.18640E+00	133.4		
8000	2.8317E+00	134.5		
16000	1.14467E+00	130.6		
31500	5.27543E-01	127.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.9	101.4	106.8	108.2	105.8	100.9	92.9	112.6
20.0	92.8	101.2	107.4	109.9	106.5	100.6	93.9	113.1
25.0	91.0	100.9	107.7	110.0	108.1	102.5	96.2	114.1
30.0	89.2	99.1	107.5	110.4	109.4	104.2	96.5	114.5
35.0	88.0	96.9	105.5	109.5	108.4	103.1	97.1	113.6
40.0	85.5	95.2	103.4	106.3	108.3	103.6	97.6	112.8
45.0	81.7	93.5	100.0	104.2	107.5	104.2	98.4	111.6
50.0	82.5	90.8	98.4	103.0	105.9	103.5	98.7	110.1
55.0	81.1	89.1	96.9	102.7	105.7	102.9	99.3	109.5
60.0	80.8	88.4	96.4	102.3	105.2	102.5	99.9	109.2
65.0	80.2	87.8	95.2	100.8	103.6	101.3	99.8	107.9
70.0	79.6	87.6	94.8	100.9	104.0	100.9	99.2	107.9
75.0	79.3	87.3	94.3	100.7	103.4	100.3	98.8	107.4
80.0	79.0	87.1	94.0	100.2	102.9	99.8	98.3	107.0
85.0	79.0	86.5	93.5	99.4	102.0	99.4	97.7	106.3
90.0	78.2	86.0	92.8	98.4	102.3	99.6	97.2	106.0
95.0	78.2	85.5	92.6	98.0	103.4	98.5	96.6	106.2
100.0	76.6	84.6	91.9	97.5	101.4	98.0	96.0	105.0
105.0	76.1	83.5	91.6	96.0	102.6	97.6	95.4	105.5
110.0	76.1	82.5	90.8	95.2	104.3	97.3	94.8	106.2
115.0	76.1	81.6	88.6	93.5	102.2	96.8	94.3	104.6

MODEL THRUST = 287500 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	OCTAVE 18.7	BAND 37.4	SOUND 74.8	PRESSURE 149.7	LEVELS 299.3	598.7	1178.6	2357.2	4677.1	9354.1	18708.3
9795.8	80.47	89.91	85.8	66.77	75.19	80.49	81.53	78.33	70.91	57.07	40.83	11.32	-40.97
9385.7	90.11	89.51	85.8	66.24	74.42	83.56	84.80	81.73	73.98	62.84	49.81	26.75	-13.55
3549.3	93.97	97.11	91.7	69.07	78.94	85.68	87.80	85.37	78.29	64.36	57.24	38.01	4.82
3000.0	96.61	95.61	93.6	68.72	78.68	86.44	89.71	88.23	81.74	71.05	61.19	44.47	-29.57
2615.2	97.31	96.01	93.4	68.11	77.97	85.80	90.10	88.52	82.13	73.49	64.50	49.54	-15.77
2333.6	98.21	96.71	94.0	67.82	77.92	85.84	90.10	88.52	82.13	73.49	64.50	49.54	-15.77
2121.3	98.57	96.77	93.6	66.21	75.19	83.29	88.63	89.58	83.83	75.50	67.16	53.49	-5.43
1958.1	98.21	96.11	92.7	65.86	74.33	81.83	87.05	88.73	85.43	78.67	71.19	59.24	8.83
1831.2	98.61	96.31	92.7	64.95	72.95	80.71	86.10	89.13	85.55	80.10	72.92	61.54	42.97
1732.1	99.11	96.51	92.9	65.15	72.72	80.85	86.54	89.12	85.72	81.35	74.39	63.47	44.73
1655.1	98.41	95.51	92.0	64.67	72.57	79.42	85.42	87.94	84.94	81.74	74.99	64.41	47.34
1496.3	98.81	96.31	92.3	64.66	72.54	79.35	85.41	88.94	84.97	81.57	74.93	64.62	48.05
1557.8	98.61	95.71	92.1	64.67	72.52	79.4	85.38	88.94	84.97	81.57	74.93	64.62	48.05
1523.1	98.31	95.41	91.4	64.60	72.50	79.32	85.33	88.93	84.94	81.57	74.93	64.62	48.05
1505.7	97.71	94.71	91.3	64.40	72.40	79.20	85.00	87.20	83.90	80.75	74.31	64.42	48.61
1500.0	97.61	94.71	91.1	64.40	72.40	79.20	85.00	87.20	83.90	80.75	74.31	64.42	48.61
1569.7	97.91	95.01	91.2	63.70	71.67	78.10	83.41	86.54	83.88	80.31	73.88	63.27	48.26
1523.1	97.11	94.51	90.9	62.02	70.69	77.10	81.77	84.49	82.42	74.92	72.43	62.47	46.51
1557.8	98.51	97.21	93.2	61.70	70.61	77.10	81.77	84.49	82.42	74.92	72.43	62.47	46.51
1596.3	98.81	96.51	93.7	61.14	69.65	76.56	82.12	84.93	81.21	77.16	70.51	60.21	43.63
1694.1	98.91	96.41	94.7	60.47	68.12	75.11	80.12	83.58	80.43	76.26	69.48	58.91	41.83

RUN NUMBER	• 535.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	• 0.100
PRIMARY TEMPERATURE (R)	• 527.000
SECONDARY TEMPERATURE (R)	• 430.000
PRIMARY PRESSURE RATIO	• 2.094
AREA RATIO	• 2.007
VELOCITY RATIO	• 0.849
PRIMARY VELOCITY (FT/SEC)	• 1100.074
MASS FLOW RATIO	• 1.542
PRIMARY MASS FLOW (LB/SEC)	• 420
THRUST (LBS)	• 39.500
ENVIRONMENTAL TEMPERATURE (R)	• 510.000
ENVIRONMENTAL PRESSURE (IN.HG)	• 29.330
ENVIRONMENTAL HUMIDITY (PER CENT)	• 61.000
CALIBRATION FACTOR (MV TO DY/50 CM)	• 0.063
INSTRUMENTATION NOISE FLOOR (DB)	• 65.566

ACOUSTIC POKER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	0.74629E+00	138.6	THRUST	POWER LEVEL (DB)
500	5.94841E-02	117.7	10000	162.5
1000	4.08199E-01	126.1	20000	165.5
2000	1.35718E+00	131.2	40000	168.5
4000	1.82279E+00	132.6	80000	171.5
8000	1.38618E+00	132.8		
16000	9.34469E-01	129.7		
31500	4.77989E-01	126.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	97.2	105.6	107.3	105.2	102.8	95.9	89.0	111.8
20.0	98.4	106.8	108.5	106.7	103.7	97.0	90.5	112.6
25.0	95.1	103.8	106.7	107.6	105.4	99.2	92.5	113.1
30.0	94.1	102.2	106.8	108.3	106.1	100.2	93.9	113.5
35.0	92.2	101.0	107.5	107.9	106.1	101.3	95.5	112.8
40.0	91.7	99.8	106.1	107.9	107.2	102.0	96.1	112.7
45.0	89.4	97.0	103.7	106.2	106.7	102.4	97.0	111.5
50.0	86.9	95.3	101.6	105.0	105.8	102.5	94.0	110.5
55.0	86.4	94.1	100.6	103.6	105.3	102.0	94.5	109.7
60.0	85.1	92.8	99.2	102.6	104.2	101.2	93.3	108.8
65.0	84.3	91.7	97.9	101.5	103.6	101.4	99.1	108.2
70.0	84.4	91.2	97.1	100.6	102.4	100.6	98.8	107.4
75.0	84.5	90.9	96.6	99.9	101.8	100.3	98.4	106.9
80.0	83.2	90.4	96.3	99.9	101.3	99.9	98.1	106.5
85.0	82.9	89.7	95.5	98.9	100.8	99.4	97.8	105.9
90.0	82.7	89.6	95.5	99.0	100.3	98.7	97.5	105.7
95.0	82.5	89.5	95.0	98.4	99.9	98.8	97.1	105.3
100.0	81.8	88.7	94.8	98.2	99.5	98.4	96.8	105.0
105.0	81.4	88.4	94.2	98.1	99.2	98.1	96.4	104.6
110.0	80.9	87.4	93.8	97.7	98.9	97.9	96.0	104.3
115.0	80.4	85.9	92.5	97.1	98.6	97.7	95.8	103.9

MODEL THRUST = 39.500 FULL SCALE THRUST = 20000.000

L.	PNOR.	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS							
			82.2	44.4	88.9	177.8	355.5	711.1	1399.9	2799.8	5599.1	11110.2	22220.5		
8908.8	83.01	82.77	83.0	89.01	77.90	79.41	76.98	73.39	83.38	84.28	30.32	-3.02	-63.32	-158.07	
4385.7	87.31	86.81	86.9	71.14	79.57	83.16	80.98	77.15	68.10	56.11	41.05	14.49	-31.27	-103.69	
3549.3	90.77	90.11	89.2	71.69	80.37	85.18	83.80	80.89	72.84	61.77	49.01	26.93	-10.67	-69.45	
3000.0	93.21	92.41	91.1	72.13	81.23	86.82	86.07	83.23	75.73	65.68	54.43	35.31	3.06	-47.43	
2615.7	94.77	93.77	91.6	71.45	80.49	86.86	86.89	84.60	78.31	69.29	59.09	42.04	13.55	-30.45	
2333.4	96.41	95.21	92.4	71.36	80.02	86.26	87.91	86.71	80.28	71.46	62.04	46.50	20.78	-19.19	
2121.3	98.91	95.91	92.0	70.82	78.07	84.89	87.05	87.13	81.73	71.69	64.85	50.46	25.74	-9.40	
1980.1	97.11	95.41	91.6	68.65	77.05	83.35	84.61	84.98	82.59	75.65	67.26	53.74	31.65	-2.35	
1831.7	97.31	95.51	91.4	68.72	76.40	82.91	85.76	87.07	82.80	77.00	68.96	56.13	35.27	3.29	
1732.1	97.11	95.01	90.9	67.93	75.58	81.44	85.26	86.51	82.60	77.58	69.82	57.51	37.42	7.21	
1655.1	97.27	95.07	90.7	67.53	74.92	81.11	84.52	86.24	83.22	78.88	71.33	54.44	40.30	11.10	
1596.3	96.91	94.41	90.2	66.17	74.76	80.40	83.97	85.47	82.79	78.06	71.67	60.09	41.53	13.28	
1552.7	96.81	94.11	89.9	67.74	74.68	80.37	83.52	85.12	82.77	78.96	71.69	60.34	42.20	14.62	
1523.1	96.41	93.91	89.4	67.10	74.34	80.70	83.73	84.78	82.58	78.91	71.72	60.53	42.68	15.57	
1505.7	96.01	93.41	89.2	66.90	73.70	79.46	82.41	84.40	82.18	74.69	71.55	60.46	42.78	15.94	
1500.0	95.77	93.11	89.0	66.74	73.44	79.50	82.95	83.91	81.92	78.43	71.31	60.25	42.63	15.48	
1505.7	95.31	92.71	88.6	66.50	73.51	78.95	82.34	83.50	81.57	78.01	70.87	59.78	42.10	15.26	
1523.1	94.91	92.31	88.2	65.53	72.49	78.74	83.02	83.08	81.05	77.61	70.42	59.24	41.39	14.28	
1552.7	94.71	91.71	87.9	65.13	72.21	77.46	81.77	82.49	80.57	76.98	69.71	58.38	40.22	12.64	
1576.1	93.61	91.11	87.1	64.41	70.42	77.33	81.10	81.97	80.10	74.22	68.43	57.25	38.69	10.42	
1595.1	92.91	90.31	86.2	63.98	69.12	75.73	80.20	81.32	79.54	75.56	68.01	54.12	36.98	7.74	

RUN NUMBER	536.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.100
PRIMARY TEMPERATURE (R)	535.000
SECONDARY TEMPERATURE (R)	536.000
PRIMARY PRESSURE RATIO	1.851
AREA RATIO	2.007
VELOCITY RATIO	1.016
PRIMARY VELOCITY (FT/SEC)	1020.452
MASS FLOW RATIO	1.874
PRIMARY MASS FLOW (LB/SEC)	4.420
THRUST (LBS)	45.000
ENVIRONMENTAL TEMPERATURE (R)	518.500
ENVIRONMENTAL PRESSURE (IN.HG)	29.330
ENVIRONMENTAL HUMIDITY (PER CENT)	65.000
IRRADIATION FACTOR (INV TO OY/SU CM)	0.079
INSTRUMENTATION NOISE FLOOR (DB)	67.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	9.67524E+00	139.9	THRUST	POWER LEVEL (DB)
500	8.43177E+02	119.3	10000	163.3
1000	6.09970E+01	127.9	20000	166.3
2000	1.94787E+00	132.9	40000	169.3
4000	2.50081E+00	134.0	80000	172.6
8000	2.48458E+00	134.0		
16000	1.33265E+00	131.2		
31500	7.14854E-01	128.5		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	98.9	106.8	109.1	107.5	104.9	98.4	91.5	113.7
20.0	98.0	107.0	110.4	109.2	106.5	100.4	94.2	114.9
25.0	97.2	106.5	110.9	109.3	106.2	100.1	94.2	114.9
30.0	95.9	105.0	110.1	109.3	107.1	101.7	96.2	114.7
35.0	93.9	103.2	109.3	109.7	107.3	101.7	96.2	114.4
40.0	91.9	100.7	107.1	108.9	107.8	103.1	97.9	113.6
45.0	90.3	99.2	105.6	107.8	107.6	103.8	99.0	112.9
50.0	89.0	97.1	103.7	106.0	106.3	102.8	99.2	111.5
55.0	86.5	94.7	101.3	104.9	106.3	103.7	100.3	111.0
60.0	86.5	94.2	100.4	103.6	105.1	102.6	100.3	109.9
65.0	85.8	93.5	99.3	102.5	104.3	102.8	101.1	109.4
70.0	85.3	92.7	98.2	101.5	103.5	102.3	100.7	108.6
75.0	85.4	92.0	97.8	101.0	103.0	101.9	100.4	108.3
80.0	84.7	92.0	97.4	100.9	102.8	101.5	100.1	108.0
85.0	84.5	91.4	97.1	100.6	102.4	101.2	99.6	107.6
90.0	83.6	90.8	96.6	99.9	102.1	101.0	99.1	107.2
95.0	83.6	90.3	95.9	99.5	101.9	100.8	98.6	106.9
100.0	83.1	89.9	95.9	99.5	101.7	100.5	98.2	106.7
105.0	82.4	89.0	95.5	99.4	101.5	100.2	97.8	106.4
110.0	81.5	88.5	95.0	99.2	101.3	100.1	97.5	106.2
115.0	81.3	87.0	93.5	98.4	101.0	100.0	97.2	105.8

MODEL THRUST = 45.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 25.7	BAND 47.4	SOUND 94.9	PRESSURE 189.7	LEVELS 379.5	758.9	1494.2	2988.4	5976.3	11850.5	23717.1
8795.4	85.01	94.81	84.8	70.66	78.51	80.63	78.66	74.74	64.86	50.15	30.08	-5.97	-88.37
4385.7	89.71	89.31	88.6	72.22	81.20	84.43	82.94	79.17	70.61	58.52	42.60	14.59	-33.35
3549.3	91.91	91.41	90.5	73.19	82.51	86.77	84.93	81.04	72.84	62.25	48.80	25.56	-13.82
3000.0	94.11	94.41	91.7	73.41	82.50	87.47	86.50	83.56	76.39	68.96	55.12	35.01	1.27
2615.2	95.61	94.71	92.6	72.56	81.85	87.85	88.06	85.13	77.94	68.93	58.23	46.31	10.51
2333.6	97.81	95.81	92.7	71.59	80.40	86.73	88.34	86.67	80.67	72.35	62.48	46.17	19.25
2121.3	97.81	96.41	92.8	70.79	79.68	86.05	84.02	87.35	82.32	74.76	65.51	50.42	25.68
1950.1	97.61	96.01	92.0	70.23	78.30	84.40	86.49	86.89	82.19	76.02	67.25	53.08	30.02
1831.2	98.21	96.41	91.9	68.27	76.42	83.05	86.45	87.49	83.77	77.96	69.57	56.12	34.36
1732.1	97.91	95.91	91.4	68.76	76.41	82.64	85.66	86.77	83.29	78.61	70.51	57.63	36.88
1655.1	98.11	95.01	91.2	68.47	76.14	81.87	85.03	86.40	83.90	79.99	72.11	59.67	39.71
1596.3	97.71	95.31	90.7	68.24	75.84	81.49	84.33	85.69	83.79	80.07	72.36	60.26	40.90
1552.4	97.71	95.31	90.6	68.66	75.17	80.67	84.04	85.71	83.48	80.13	72.56	60.70	41.79
1523.1	97.41	95.21	90.5	68.06	75.34	80.76	84.11	85.67	83.48	80.03	72.54	60.86	42.25
1505.7	97.41	94.91	90.3	67.95	74.67	80.54	83.46	85.38	83.30	79.70	72.26	60.67	42.24
1500.0	97.01	94.61	89.9	67.12	74.29	80.08	83.24	85.12	83.12	79.24	71.82	60.27	41.90
1505.7	96.61	94.21	89.5	67.08	73.42	79.28	82.45	84.77	82.91	78.86	71.23	59.64	41.21
1523.1	94.21	93.91	89.2	66.51	73.76	79.18	82.46	84.56	82.47	78.18	70.69	59.00	40.39
1552.4	95.71	93.41	88.8	65.59	72.23	78.48	82.41	84.20	82.00	77.50	69.03	58.07	39.16
1596.3	95.71	92.91	88.3	64.52	71.46	77.94	82.04	83.76	81.62	76.84	69.16	57.06	37.70
1655.1	94.31	92.11	87.5	63.91	69.64	76.11	80.87	83.12	81.16	75.10	68.22	55.78	35.82

RUN NUMBER	537.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (IN.)	-4.100
PRIMARY TEMPERATURE (IN)	547.000
SECONDARY TEMPERATURE (IN)	530.000
PRIMARY PRESSURE (IN)	3.000
AREA RATIO	4.958
VELOCITY RATIO	.371
PRIMARY VELOCITY (FT/SEC)	1330.492
MASS FLOW RATIO	1.027
PRIMARY MASS FLOW (LB/SEC)	.520
THRUST (LBS)	34.000
ENVIRONMENTAL TEMPERATURE (R)	529.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.330
ENVIRONMENTAL HUMIDITY (PER CENT)	50.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.079
INSTRUMENTATION NOISE FLOOR (DB)	67.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	6.9194E+00	138.4	THRUST	POWER LEVEL (DB)
500	2.94553E-02	114.7	10000	163.1
1000	2.24682E-01	123.5	20000	166.1
2000	1.15490E-00	130.0	40000	169.1
4000	2.03946E-00	133.1	80000	172.1
8000	2.24075E-00	133.5		
16000	7.08407E-01	129.0		
31500	6.41685E-01	126.5		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.4	102.0	107.8	108.3	108.1	98.9	91.8	113.0
20.0	93.5	102.5	109.2	110.1	107.6	98.0	92.9	114.3
25.0	92.7	102.4	109.4	110.7	108.3	100.2	94.7	114.8
30.0	90.8	101.3	109.0	110.8	108.0	100.6	95.8	114.7
35.0	89.4	99.0	107.3	110.0	107.8	101.2	96.2	113.8
40.0	87.0	96.6	104.9	108.4	107.1	101.2	96.6	112.4
45.0	84.5	93.8	101.7	105.7	107.0	102.6	97.9	111.1
50.0	83.1	91.4	98.6	103.0	106.6	102.3	98.7	109.9
55.0	82.4	89.4	96.3	100.9	106.0	101.5	99.3	109.0
60.0	82.4	88.2	95.2	99.9	104.4	100.3	98.9	107.8
65.0	82.1	88.6	94.6	99.7	105.2	99.4	98.6	108.0
70.0	81.3	87.9	94.4	98.6	103.3	99.8	99.1	106.8
75.0	81.6	87.6	93.8	97.9	102.1	99.2	97.8	106.0
80.0	81.0	87.3	92.9	97.2	101.0	98.9	97.2	105.2
85.0	80.3	87.0	92.7	96.8	100.4	98.2	96.8	104.7
90.0	80.0	86.1	92.2	96.2	99.2	97.8	96.2	104.0
95.0	79.2	85.8	91.7	95.4	98.9	97.3	95.8	103.5
100.0	79.2	85.2	91.3	95.4	98.4	96.8	95.4	103.1
105.0	78.0	84.3	90.8	95.2	98.0	96.4	95.0	102.7
110.0	77.6	83.4	90.3	94.6	97.5	96.1	94.6	102.2
115.0	77.1	82.6	89.1	93.3	97.2	95.8	94.3	101.8

MODEL THRUST = 34.000 FULL SCALE THRUST = 20000.000

L.	PROR.	OASPL	OCTAVE	BAND	SOUND	PRESSURE	LEVELS												
			20.6	41.2	82.5	164.9	329.8	659.7	1298.8	2597.6	5195.2	10390.4	20780.8	41561.5					
8798.6	95.71	85.41	85.3	67.40	75.75	80.63	80.75	77.53	67.54	53.82	36.11	4.05	-52.22	-142.73					
4385.7	90.31	49.81	89.2	68.93	77.91	84.47	85.10	81.80	70.46	60.03	45.60	20.91	-22.41	-91.63					
3349.3	93.61	42.71	91.6	69.92	79.59	86.54	87.80	84.55	74.73	65.22	53.21	32.62	-3.21	-54.00					
3080.0	95.11	44.21	93.0	69.51	79.34	87.64	89.28	85.94	77.07	68.83	58.21	40.17	9.60	-38.70					
2615.2	96.21	45.11	93.3	69.29	78.88	87.15	89.72	87.01	79.69	71.12	61.48	43.37	18.33	-24.16					
2333.6	96.61	45.31	92.8	67.86	77.63	85.75	87.38	84.37	73.00	64.16	49.46	25.01	-13.23						
2121.3	97.21	45.01	92.2	68.19	75.90	83.41	87.21	88.12	82.70	75.59	67.20	53.57	31.07	-3.96					
1958.1	97.51	45.61	91.7	65.55	73.40	80.93	85.22	88.46	83.26	77.44	69.67	58.65	35.65	3.09					
1831.2	97.81	45.51	91.3	65.38	72.40	79.26	83.77	88.49	83.07	78.85	71.20	59.82	39.18	3.84					
1732.1	97.01	44.71	90.5	69.86	71.69	79.67	83.19	87.30	82.43	74.13	71.73	60.05	41.13	11.98					
1655.1	97.41	45.51	91.2	65.99	72.50	79.48	83.47	88.61	82.55	79.34	72.13	60.84	42.62	14.63					
1596.3	97.01	44.51	90.3	65.45	72.11	79.56	82.88	87.02	82.41	73.27	72.22	61.21	43.54	10.44					
1552.4	96.51	43.01	89.7	66.27	72.05	77.99	82.21	86.00	82.46	79.30	72.35	61.57	44.29	17.45					
1521.1	95.91	43.11	89.1	65.55	71.40	77.44	81.06	85.16	82.38	78.90	72.03	61.40	44.40	19.40					
1504.7	95.01	42.71	88.7	65.01	71.68	77.35	81.38	86.66	81.74	79.62	71.40	61.25	44.41	19.47					
1500.0	94.71	41.41	88.0	64.70	70.46	76.49	80.43	83.49	81.61	78.14	71.33	60.82	44.83	19.38					
1505.7	94.21	41.01	87.5	63.94	70.45	76.14	79.49	83.21	80.45	77.64	70.52	60.27	43.43	17.49					
1522.1	93.21	41.01	87.3	63.84	69.77	75.31	79.37	82.60	80.26	77.12	70.25	59.62	42.62	16.62					
1552.4	93.11	40.21	86.4	62.66	64.75	73.17	74.51	81.99	79.43	75.49	69.55	58.77	41.44	15.94					
1564.1	92.21	40.51	85.6	61.77	67.57	74.44	74.94	81.23	78.16	75.75	69.69	57.69	40.02	17.42					
1655.1	91.41	44.71	84.6	63.99	68.44	74.41	77.34	80.40	78.66	75.10	67.90	56.60	39.39	17.40					

RIM NUMBER	539.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	-4.100
PRIMARY TEMPERATURE (IN)	538.000
SECONDARY TEMPERATURE (IN)	543.000
PRIMARY PRESSURE RATIO	1.051
AREA RATIO	4.856
VELOCITY RATIO	1.020
PRIMARY VELOCITY (FT/SEC)	1023.309
MASS FLOW RATIO	3.006
PRIMARY MASS FLOW (LB/SEC)	.420
THRUST (LBS)	70.000
ENVIRONMENTAL TEMPERATURE (R)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	24.290
ENVIRONMENTAL HUMIDITY (PER CENT)	58.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.100
INSTRUMENTATION NOISE FLOOR (DB)	69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	1.29756E+01	141.1	THRUST	POWER LEVEL (DB)
500	2.33795E-01	123.7	10000	162.7
1000	1.39626E+00	131.4	20000	165.7
2000	3.30730E+00	135.2	40000	166.7
4000	3.00891E+00	134.8	80000	171.7
8000	2.54012E+00	134.0		
16000	1.30993E+00	131.8		
31500	9.79306E-01	129.9		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	103.1	109.1	111.0	107.7	104.4	98.4	90.5	115.1
20.0	103.0	110.6	112.6	109.4	105.7	99.0	92.7	116.5
25.0	101.6	110.7	113.2	110.3	106.6	100.8	94.5	117.1
30.0	100.1	109.1	113.2	111.1	107.1	101.5	96.0	117.0
35.0	98.2	107.5	112.3	110.9	107.6	102.2	97.5	116.4
40.0	95.7	104.6	110.2	110.2	109.1	103.8	99.7	115.3
45.0	93.3	102.1	107.3	108.8	108.0	104.2	100.4	113.9
50.0	92.2	98.9	104.1	106.1	106.5	103.8	101.2	112.0
55.0	91.0	97.2	102.1	104.9	106.0	104.2	102.5	111.4
60.0	91.0	96.8	101.3	103.7	105.1	103.8	102.8	110.7
65.0	91.4	96.8	100.7	103.2	104.4	103.3	102.3	110.2
70.0	91.0	96.1	100.2	102.4	104.0	103.1	102.0	109.7
75.0	90.5	95.9	99.7	101.8	103.3	102.7	100.5	109.1
80.0	90.4	95.2	99.1	101.2	103.0	102.3	100.4	108.7
85.0	89.6	94.8	98.7	101.1	102.6	101.9	100.5	108.4
90.0	89.1	94.1	98.0	100.5	102.2	101.5	100.3	108.0
95.0	89.0	93.6	97.8	100.3	101.9	101.1	100.8	107.8
100.0	87.6	93.1	97.1	99.6	101.6	100.7	99.9	107.2
105.0	86.9	92.6	97.1	99.6	101.3	100.4	99.4	107.0
110.0	86.1	91.6	96.5	99.3	101.1	100.1	99.1	106.8
115.0	85.4	90.1	95.8	98.8	100.9	100.0	98.8	106.3

MODEL THRUST = 70.800 FULL SCALE THRUST = 20000.000

L	PNDR.	OASPL	20.6	OCTAVE 54.2	BAND 118.3	SOUND 236.6	PRESSURE 473.3	LEVELS 946.6	1863.6	3727.1	7395.1	14790.2	29580.4
8795.6	84.1 (84.0)	84.3	72.93	78.90	80.54	76.59	71.54	61.08	43.15	18.75	-24.42	-97.31	-208.95
4385.7	88.8 (86.6)	88.3	75.30	82.81	84.62	81.01	75.94	65.83	51.88	32.68	-7.71	-56.60	-141.82
3549.3	91.9 (91.6)	90.7	75.67	84.78	87.13	83.81	79.93	70.45	58.04	41.93	14.34	-31.47	-101.00
3008.0	94.2 (93.8)	92.1	75.72	84.48	86.67	86.19	81.25	73.35	62.65	48.57	24.78	-14.40	-73.64
2615.2	95.5 (95.0)	92.7	74.95	84.24	88.40	87.28	83.19	75.76	66.47	53.82	32.69	-1.85	-53.27
2333.6	96.5 (95.4)	92.5	73.41	82.30	87.44	87.61	84.75	78.70	73.53	68.91	39.74	8.59	-38.15
2121.3	96.7 (95.7)	91.7	71.86	80.70	85.74	87.03	85.55	80.11	72.71	61.88	44.18	15.59	-27.17
1988.1	96.3 (95.0)	90.3	71.45	78.16	83.28	85.04	84.87	80.69	74.63	66.40	47.82	21.21	-16.40
1831.2	96.4 (95.3)	90.1	70.88	77.01	81.84	84.48	85.06	81.78	76.89	67.13	51.44	26.35	-10.97
1732.1	97.0 (95.3)	89.9	71.37	77.10	81.71	83.74	84.60	82.04	77.99	69.59	53.59	29.70	-5.77
1658.1	97.1 (95.3)	89.8	72.12	77.40	81.16	83.68	84.37	82.00	78.12	69.91	54.54	31.58	-2.64
1596.3	97.2 (95.3)	89.6	72.08	77.12	81.14	83.18	84.27	82.18	78.27	69.38	55.31	33.06	1.4
1552.9	96.5 (94.7)	89.3	71.81	77.21	80.46	82.46	83.84	82.08	77.18	68.45	54.69	32.96	4.5
1523.1	96.0 (94.8)	89.0	71.85	76.69	80.52	82.45	83.76	81.47	77.30	68.68	55.12	33.75	2.20
1505.7	96.3 (94.6)	88.9	71.12	75.30	80.22	82.43	83.47	81.60	77.59	68.03	55.60	34.44	3.21
1500.0	96.2 (94.3)	88.4	70.71	75.43	79.86	81.49	83.09	81.24	77.43	68.99	55.50	34.41	3.24
1505.7	96.3 (94.3)	88.1	69.54	74.13	79.37	81.27	82.75	80.77	77.93	68.37	55.93	34.77	3.55
1523.1	96.5 (93.6)	87.5	69.38	74.43	78.67	80.43	82.37	80.26	76.80	68.17	56.62	35.25	1.64
1552.4	96.4 (92.6)	87.1	68.16	73.46	78.13	80.40	81.87	79.77	76.04	67.35	53.58	31.86	-0.24
1546.3	96.1 (92.2)	86.5	68.18	72.44	77.47	80.15	81.42	79.16	74.39	66.50	52.44	30.19	-2.74
1658.1	93.7 (91.4)	85.7	68.10	70.74	76.44	79.23	80.86	78.67	74.57	65.46	50.99	24.93	-5.44

RUPI NUMBER	
AIRAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	540.000
PRIMARY TEMPERATURE (IN)	54.100
SECONDARY TEMPERATURE (IN)	530.000
PRIMARY PRESSURE RATIO	941.000
AREA RATIO	3.000
VELOCITY RATIO	9.700
PRIMARY VELOCITY (FT/SEC)	972
MASS FLOW RATIO	1332.211
PRIMARY MASS FLOW (LB/SEC)	2.025
THRUST (LBS)	420
ENVIRONMENTAL TEMPERATURE (R)	40.000
ENVIRONMENTAL PRESSURE (IN.MG)	522.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.270
CALIBRATION FACTOR (MV TO GV/50 CM)	54.000
INSTRUMENTATION NOISE FLOOR (DB)	.050
	83.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.09024E+00	136.1	THRUST	POWER LEVEL (DB)
500	9.11634E-02	119.6	10000	160.1
1000	1.92626E-01	122.8	20000	163.1
2000	6.72306E-01	128.3	40000	166.1
4000	4.40664E-01	130.0	80000	169.1
8000	1.16431E+00	130.7		
16000	5.81035E-01	127.6		
31500	3.98130E-01	126.		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	16000	31500	OVER
				4000	8000				ALL
15.0	94.7	102.4	104.9	104.3	100.8	97.3	92.4	109.9	
20.0	94.3	101.9	106.1	105.8	101.9	96.7	93.2	110.8	
25.0	93.5	101.9	106.8	106.1	102.2	96.1	93.9	111.1	
30.0	91.4	99.8	105.7	106.0	102.3	96.5	94.9	110.5	
35.0	89.3	98.0	104.8	106.4	103.0	97.4	95.9	110.4	
40.0	87.2	95.8	102.3	105.0	103.4	98.5	95.6	109.3	
45.0	85.4	93.3	100.4	104.1	106.0	100.7	97.0	109.8	
50.0	83.6	91.0	97.6	101.7	105.3	101.7	98.6	108.9	
55.0	82.8	89.1	95.8	99.4	104.1	100.5	99.0	107.8	
60.0	82.3	88.3	94.7	98.8	103.7	100.0	99.0	107.2	
65.0	82.1	88.4	95.0	98.8	102.3	99.9	98.5	106.6	
70.0	82.3	88.1	93.8	97.6	99.9	99.2	97.8	105.2	
75.0	81.2	87.4	92.6	95.0	98.1	98.5	97.1	104.0	
80.0	81.4	87.2	91.9	95.7	98.2	97.8	96.6	103.7	
85.0	100.4	86.4	91.9	95.1	97.8	97.1	95.0	105.0	
90.0	80.2	86.3	91.3	94.4	97.6	96.5	95.6	102.7	
95.0	80.0	86.2	91.7	94.1	97.0	95.9	95.2	102.2	
100.0	79.3	85.5	91.3	94.1	96.7	95.5	94.8	101.9	
105.0	79.1	84.9	90.6	93.7	96.3	95.2	94.3	101.5	
110.0	78.1	84.2	89.9	93.2	96.0	94.9	94.0	101.1	
115.0	77.6	83.3	89.0	92.4	95.7	94.6	93.8	100.7	

MODEL THRUST = 40.000 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	22.4	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	2017.4	5590.2	11180.3	22360.7
				44.7	89.4	178.9	357.8	715.5	1408.7			
8795.6	81.81 81.51	81.5	67.02	74.63	77.02	76.02	71.06	64.72	52.53	33.48	-8.84	-60.81 -155.72
8385.7	86.11 85.51	84.9	68.96	76.54	80.70	80.83	75.27	67.73	58.74	43.60	16.90	-29.87 -101.77
3849.3	86.81 86.01	87.2	70.05	74.44	83.28	82.26	77.63	69.67	63.02	50.19	28.01	-9.76 -69.16
3669.0	90.51 89.51	88.1	69.44	77.78	83.60	83.70	79.34	71.03	66.61	55.30	36.09	3.70 -46.98
2615.2	92.31 91.01	89.1	68.46	77.20	83.01	83.20	81.40	74.61	69.00	59.36	42.23	13.61 -30.95
2333.5	93.11 91.81	89.0	67.35	75.92	83.55	83.00	82.89	72.49	70.88	61.42	45.81	19.95 -20.14
2121.3	95.01 94.11	90.1	66.38	74.79	81.36	84.85	86.36	79.91	73.61	64.73	50.27	26.49 -10.22
1958.1	95.71 94.21	89.8	65.54	72.72	79.26	83.18	86.40	81.74	76.19	67.77	54.19	32.01 -2.11
1831.7	95.41 93.71	89.2	65.08	71.63	78.00	81.97	85.88	81.21	77.50	69.43	56.54	35.60 3.30
1732.1	96.01 93.81	89.1	65.07	71.07	77.45	81.41	85.94	81.33	78.15	70.36	58.00	38.03 7.50
1655.1	95.71 93.31	88.4	65.30	71.55	78.13	81.84	86.92	81.66	74.70	74.62	58.69	39.46 10.16
1596.3	94.71 92.11	87.8	65.78	71.60	77.27	80.43	82.92	81.35	77.96	70.54	58.92	40.28 11.91
1552.9	93.41 91.11	86.8	64.96	71.08	76.33	79.51	81.39	80.92	77.56	70.26	58.87	40.85 12.98
1523.1	93.61 90.41	86.7	65.31	71.05	75.74	79.44	81.67	80.34	77.32	70.10	58.87	40.95 13.74
1505.1	94.01 91.41	86.4	64.37	70.61	75.44	78.43	81.37	79.41	76.84	69.67	58.53	40.78 13.45
1500.0	92.41 90.21	85.0	64.20	70.38	75.13	74.24	81.19	79.27	76.47	69.32	58.21	40.52 13.68
1505.7	92.61 90.91	85.6	64.61	70.19	75.44	77.43	80.52	78.61	76.05	68.68	57.75	40.80 13.07
1523.1	94.41 92.21	85.0	63.24	69.19	75.13	77.47	80.10	78.04	74.53	69.31	57.08	39.16 11.94
1552.9	91.11 90.61	84.0	62.83	68.78	74.11	77.26	74.55	77.63	74.75	67.45	56.06	37.84 10.16
1596.3	91.41 90.91	83.7	61.57	67.66	73.10	76.44	74.00	77.03	74.13	66.71	55.08	36.45 8.04
1655.1	90.41 90.21	82.3	60.48	66.45	72.17	75.45	74.36	76.14	73.67	65.89	53.94	34.73 5.43

RUN NUMBER	547.000
AXIAL POSITION OF PRIMARY WRT SECONDARY (INS.)	-4.100
PRIMARY TEMPERATURE (R)	535.000
SECONDARY TEMPERATURE (R)	537.000
PRIMARY PRESSURE RATIO	2.044
AREA RATIO	9.744
VELOCITY RATIO	.648
PRIMARY VELOCITY (FT/SEC)	1104.347
MASS FLOW RATIO	5.842
PRIMARY MASS FLOW (LB/SEC)	.420
THRUST (LBS)	92.600
ENVIRONMENTAL TEMPERATURE (R)	523.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	50.000
CALIBRATION FACTOR (MV TO DY/50 CM)	.079
INSTRUMENTATION NOISE FLOOR (DB)	67.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	8.28809E+00	139.2	THRUST	POWER LEVEL (DB)
500	3.92114E-01	125.9	10000	159.5
1000	1.53402E+00	131.9	20000	162.6
2000	2.26210E+00	133.5	40000	165.8
4000	1.83951E+00	132.6	80000	168.6
8000	1.30729E+00	131.2		
16000	6.68246E-01	128.2		
31500	2.84775E-01	124.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	105.3	109.3	106.8	102.0	96.9	89.7	85.5	112.7
20.0	105.5	110.9	109.8	104.7	99.6	91.9	87.4	114.7
25.0	104.4	110.8	110.7	105.7	100.6	93.9	89.6	115.0
30.0	102.7	109.5	111.0	104.8	101.6	95.8	92.1	114.8
35.0	100.8	108.1	109.7	107.9	103.2	97.9	93.8	114.2
40.0	98.7	105.3	108.6	107.7	104.4	99.3	95.0	113.3
45.0	96.0	102.4	106.2	106.6	104.3	99.7	95.4	111.7
50.0	94.0	100.0	104.1	105.4	104.4	100.8	96.8	110.7
55.0	92.3	98.3	103.0	104.1	103.9	100.0	97.1	109.6
60.0	92.3	97.4	101.7	103.2	103.1	100.8	97.3	109.1
65.0	92.1	97.1	101.4	102.8	102.6	100.2	96.4	108.6
70.0	91.8	96.8	100.3	101.8	101.8	99.7	96.5	107.8
75.0	91.3	96.3	99.8	101.3	101.1	99.4	96.2	107.3
80.0	91.4	96.1	99.4	100.7	100.5	99.0	95.8	106.9
85.0	90.7	95.6	99.3	100.6	100.2	99.0	95.3	106.7
90.0	90.3	95.2	98.7	100.3	100.1	98.7	95.0	106.4
95.0	89.4	94.3	98.1	99.4	99.7	98.0	94.5	105.7
100.0	89.2	94.2	97.6	99.1	99.6	97.4	93.4	105.3
105.0	88.0	93.4	97.4	98.8	99.4	96.9	93.0	105.0
110.0	87.7	92.5	96.6	98.2	99.4	96.9	93.3	104.7
115.0	87	92.2	96.7	98.0	99.2	96.6	92.6	104.4

MODEL THRUST = 92.000 FULL SCALE THRUST = 20000.000

L.	PRDB.	OASPL	33.9	OCTAVE	BAND	SOUND	PNESURE	LEVELS						
			33.9	67.8	134.6	271.3	542.6	1085.2	2170.4	4272.9	8477.9	16955.8	33911.6	
5795.6	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5795.7	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5795.8	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5795.9	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5796.0	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5796.1	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5796.2	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5796.3	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5796.4	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5796.5	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5796.6	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5796.7	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5796.8	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5796.9	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5797.0	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5797.1	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5797.2	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5797.3	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5797.4	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5797.5	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5797.6	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5797.7	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5797.8	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5797.9	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5798.0	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5798.1	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5798.2	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5798.3	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5798.4	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5798.5	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5798.6	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5798.7	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5798.8	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5798.9	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5799.0	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5799.1	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5799.2	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5799.3	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5799.4	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5799.5	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5799.6	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5799.7	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5799.8	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5799.9	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5800.0	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5800.1	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5800.2	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5800.3	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5800.4	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5800.5	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5800.6	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5800.7	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5800.8	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5800.9	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5801.0	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5801.1	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
5801.2	78.51	78.51	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71

RUN NUMBER	= 562.000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (K)	= 536.000
SECONDARY TEMPERATURE (K)	= 537.000
PRIMARY PRESSURE RATIO	= 1.051
AREA RATIO	= 9.789
VELOCITY RATIO	= 1.018
PRIMARY VELOCITY (FT/SEC)	= 1019.449
MASS FLOW RATIO	= 0.721
PRIMARY MASS FLOW (LB/SEC)	= 0.622
THRUST (LBS)	= 112.000
ENVIRONMENTAL TEMPERATURE (K)	= 523.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	= 50.000
CALIBRATION FACTOR (INV TO 07/50 CM)	= 1.02
INSTRUMENTATION NOISE FLOOR (DB)	= 72.031

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST
OVERALL	2.72149E+01	144.3	THRUST POWER LEVEL (DB)
500	1.14218E+00	130.6	10000 163.9
1000	4.60740E+00	136.6	20000 166.0
2000	6.7124E+00	138.3	40000 169.0
4000	5.2371E+00	137.2	80000 172.0
8000	5.39078E+00	137.3	
16000	2.42214E+00	134.7	
31500	1.17351E+00	130.7	

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	110.0	110.0	112.5	107.1	108.0	93.8	91.9	117.9
20.0	110.3	110.7	114.0	107.4	108.0	94.3	92.2	118.0
25.0	109.0	110.0	115.9	110.7	108.2	95.1	93.6	118.1
30.0	107.4	110.9	116.0	111.0	107.1	95.8	97.0	118.0
35.0	105.3	112.3	116.0	112.3	108.4	96.8	96.8	118.0
40.0	102.9	110.0	112.0	112.2	109.4	105.3	101.3	117.0
45.0	100.5	107.2	111.1	111.6	109.9	106.4	102.8	117.0
50.0	98.2	104.2	108.0	109.6	108.9	105.4	102.7	116.2
55.0	95.9	102.8	106.0	108.3	108.2	106.2	103.3	116.3
60.0	93.3	102.0	106.0	107.6	108.0	106.4	103.6	116.0
65.0	90.1	101.2	105.2	106.4	107.1	106.4	102.9	115.6
70.0	86.2	101.0	104.6	106.3	107.0	106.7	102.7	115.1
75.0	82.4	100.4	104.0	105.8	106.4	106.1	101.6	114.8
80.0	78.6	100.2	103.0	105.2	106.4	106.2	101.2	114.3
85.0	74.9	99.8	103.1	104.9	105.9	105.9	101.2	114.2
90.0	71.3	99.1	102.8	104.3	105.7	105.7	101.2	114.0
95.0	67.1	98.7	101.8	103.1	105.5	105.5	100.4	113.7
100.0	63.2	98.2	101.7	103.0	105.7	105.7	99.6	113.4
105.0	59.6	97.8	101.3	103.0	105.3	105.3	98.5	113.2
110.0	56.0	97.4	101.1	103.4	105.1	105.1	98.7	113.0
115.0	52.5	96.9	100.0	103.5	105.3	105.3	99.1	112.9

MODEL THRUST = 112.000 FULL SCALE THRUST = 20000.000

L.	PRON.	GRPL	OCTAVE BAND											PRESSURE LEVELS											
			37.4	70.8	100.7	130.2	159.7	189.2	218.7	248.2	277.8	307.3	336.8	366.3	395.8	425.3	454.8	484.3	513.8	543.3	572.8	602.3	631.8	661.3	690.8
8709.6	83.01	83.01	83.3	78.02	81.07	79.01	73.02	80.00	83.72	30.00	0.02	-40.00	-139.11	-259.10											
8385.7	89.21	89.11	89.5	80.82	85.02	80.74	75.08	75.20	81.11	27.13	23.70	-10.23	-81.39	-177.53											
8061.8	92.01	92.31	91.0	81.02	87.70	87.73	81.07	75.79	80.09	33.03	30.40	1.50	-51.00	-139.10											
7737.9	94.81	94.31	93.1	80.94	88.02	87.88	80.07	70.00	70.00	39.00	32.50	10.00	-31.27	-87.07											
7414.0	97.61	97.01	95.8	80.86	87.10	87.04	80.00	70.00	70.00	45.00	38.00	16.00	-21.00	-75.00											
7090.1	100.41	100.01	98.0	78.00	85.70	85.00	87.36	83.03	77.00	50.12	31.00	-0.03	-47.10												
6766.2	103.21	102.11	100.0	75.05	83.05	87.00	87.00	83.00	70.31	50.00	37.00	0.12	-40.00												
6442.3	106.01	104.21	101.0	75.02	81.04	85.00	80.30	80.00	70.41	52.20	40.00	0.00	-30.75												
6118.4	108.81	106.11	101.0	74.00	80.90	80.90	85.00	80.00	67.00	52.00	40.00	10.00	-20.00												
5794.5	111.61	108.11	101.1	74.02	80.27	80.22	85.07	80.13	67.10	50.00	40.00	10.00	-20.00												
5470.6	114.41	109.91	100.8	74.03	79.04	83.02	84.00	80.72	67.10	50.00	40.00	10.00	-20.00												
5146.7	117.21	110.31	100.0	75.24	79.70	82.07	83.13	80.00	67.00	50.00	40.00	10.00	-20.00												
4822.8	120.01	111.01	100.5	75.00	79.02	83.17	80.00	80.00	67.73	50.00	40.00	10.00	-20.00												
4498.9	122.81	111.11	100.5	75.05	79.01	83.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
4175.0	125.61	111.11	100.5	74.01	79.00	82.00	80.00	80.00	67.77	50.00	40.00	10.00	-20.00												
3851.1	128.41	111.11	100.3	73.00	79.00	81.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
3527.2	131.21	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
3203.3	134.01	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
2879.4	136.81	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
2555.5	139.61	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
2231.6	142.41	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
1907.7	145.21	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
1583.8	148.01	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
1259.9	150.81	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
936.0	153.61	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
612.1	156.41	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
288.2	159.21	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
164.3	162.01	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												
109.4	164.81	111.11	100.1	73.00	79.00	80.00	80.00	80.00	67.00	50.00	40.00	10.00	-20.00												

WIND NUMBER	= 000.000
AIRIAL POSITION OF PRIMARY WIND, SECONDARY (INCH)	= NONE
PRIMARY TEMPERATURE (IN)	= 536.000
SECONDARY TEMPERATURE (IN)	= NONE
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1075.723
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= 248
THRUST (LBS)	= 6.016
ENVIRONMENTAL TEMPERATURE (IN)	= 222.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.270
ENVIRONMENTAL HUMIDITY (PERCENT)	= 59.000
CALIBRATION FACTOR (INV TO 0.750 CM)	= 0.010
INSTRUMENTATION NOISE FLOW (IN)	= 54.288

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	THRUST	POWER LEVEL (DB)
OVERALL	9.67384E-01	127.4		
500	1.62079E-03	102.1	10000	156.3
1000	1.07764E-02	110.3	20000	161.6
2000	6.32232E-02	118.0	40000	167.5
4000	1.40040E-01	121.5	80000	167.5
8000	1.72221E-01	122.5		
16000	1.08942E-01	120.5		
31500	4.93359E-02	110.4		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	OCTAVE 2000	OCTAVE 4000	OCTAVE 8000	OCTAVE 16000	OCTAVE 31500	OVERALL
15.0	79.0	87.1	86.3	87.0	87.3	87.6	85.0	102.0
20.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
25.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
30.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
35.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
40.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
45.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
50.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
55.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
60.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
65.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
70.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
75.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
80.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
85.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
90.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
95.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
100.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
105.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
110.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
115.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7

MODEL JET # 0.010 FULL SCALE THRUST = 25000 LBS

ANGLE (DEG)	500	OCTAVE 1000	OCTAVE 2000	OCTAVE 4000	OCTAVE 8000	OCTAVE 16000	OCTAVE 31500	OVERALL
15.0	79.0	87.1	86.3	87.0	87.3	87.6	85.0	102.0
20.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
25.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
30.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
35.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
40.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
45.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
50.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
55.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
60.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
65.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
70.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
75.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
80.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
85.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
90.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
95.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
100.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
105.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
110.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7
115.0	78.0	87.0	86.0	86.0	86.3	86.2	84.2	102.7

WIND NUMBER	601000
AXIAL POSITION OF PRIMARY WHT. SECONDARY (INS.)	NONE
PRIMARY TEMPERATURE (H)	537.000
SECONDARY TEMPERATURE (H)	NONE
PRIMARY PRESSURE (H)	3.500
AREA RATIO	NONE
VELOCITY RATIO	NONE
PRIMARY VELOCITY (FT/SEC)	1221.016
MASS FLOW RATIO	NONE
PRIMARY MASS FLOW (LB/SEC)	2.298
THRUST (LBS)	11.316
ENVIRONMENTAL TEMPERATURE (D)	525.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	50.000
CALIBRATION FACTOR (INV TO DY/SH CH)	0.032
INSTRUMENTATION NOISE FLOOR (DB)	59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.31646E+00	131.2	THRUST	POWER LEVEL (DB)
500	3.04710E-03	100.8	10000	100.7
1000	2.36233E-02	113.7	20000	103.7
2000	1.96870E-01	122.0	40000	106.7
4000	3.69645E-01	125.9	80000	109.7
8000	4.32803E-01	126.6		
16000	2.23003E-01	123.5		
31500	8.03832E-02	119.5		

EXPERIMENTAL DATA

TABLE 2-4-1-4 OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	SOUND PRESSURE LEVELS	OVERALL
10.0	82.3	82.4	100.1	100.6	100.4
20.0	82.0	82.3	100.3	101.4	101.8
30.0	82.1	81.7	100.1	101.0	101.4
40.0	82.4	82.1	99.1	102.4	102.0
50.0	79.3	81.5	98.3	102.7	102.0
60.0	77.2	81.0	96.1	100.8	101.0
70.0	75.5	81.7	93.5	96.2	100.3
80.0	76.6	82.0	91.3	96.0	100.0
90.0	72.9	81.0	84.6	90.4	97.2
100.0	72.4	80.9	84.0	89.6	96.0
110.0	72.0	80.6	83.9	89.3	95.8
120.0	72.6	80.8	84.0	89.4	95.9
130.0	72.6	80.8	84.0	89.4	95.9
140.0	72.3	80.3	86.0	89.3	95.7
150.0	72.3	80.1	86.2	89.0	95.3
160.0	72.0	79.3	86.2	89.0	95.1
170.0	71.2	79.1	85.0	87.2	94.3
180.0	71.6	79.1	85.0	87.2	94.3
195.0	70.5	77.0	84.0	87.4	93.7
110.0	69.6	74.0	82.0	87.4	93.7
115.0	69.1	74.0	81.1	86.3	92.4

MODEL THRUST = 11.316 FULL SCALE THRUST = 20000.000

ANGLE (DEG)	500	1000	2000	SOUND PRESSURE LEVELS	OVERALL
11.0	82.3	82.4	100.1	100.6	100.4
22.0	82.0	82.3	100.3	101.4	101.8
33.0	82.1	81.7	100.1	101.0	101.4
44.0	82.4	82.1	99.1	102.4	102.0
55.0	79.3	81.5	98.3	102.7	102.0
66.0	77.2	81.0	96.1	100.8	101.0
77.0	75.5	81.7	93.5	96.2	100.3
88.0	76.6	82.0	91.3	96.0	100.0
99.0	72.9	81.0	84.6	90.4	97.2
110.0	72.4	80.9	84.0	89.6	96.0
121.0	72.0	80.6	83.9	89.3	95.8
132.0	72.6	80.8	84.0	89.4	95.9
143.0	72.6	80.8	84.0	89.4	95.9
154.0	72.3	80.3	86.0	89.3	95.7
165.0	72.3	80.1	86.2	89.0	95.3
176.0	72.0	79.3	86.2	89.0	95.1
187.0	71.2	79.1	85.0	87.2	94.3
198.0	71.6	79.1	85.0	87.2	94.3
209.0	70.5	77.0	84.0	87.4	93.7
220.0	69.6	74.0	82.0	87.4	93.7
231.0	69.1	74.0	81.1	86.3	92.4
242.0	68.6	73.0	80.1	85.2	91.1
253.0	68.1	72.0	79.1	84.1	89.8
264.0	67.6	71.0	78.1	83.0	88.5
275.0	67.1	70.0	77.1	82.0	87.2
286.0	66.6	69.0	76.1	81.0	85.9
297.0	66.1	68.0	75.1	80.0	84.6
308.0	65.6	67.0	74.1	79.0	83.3
319.0	65.1	66.0	73.1	78.0	82.0
330.0	64.6	65.0	72.1	77.0	80.7
341.0	64.1	64.0	71.1	76.0	79.4
352.0	63.6	63.0	70.1	75.0	78.1
363.0	63.1	62.0	69.1	74.0	76.8
374.0	62.6	61.0	68.1	73.0	75.5
385.0	62.1	60.0	67.1	72.0	74.2
396.0	61.6	59.0	66.1	71.0	72.9
407.0	61.1	58.0	65.1	70.0	71.6
418.0	60.6	57.0	64.1	69.0	70.3
429.0	60.1	56.0	63.1	68.0	69.0
440.0	59.6	55.0	62.1	67.0	67.7
451.0	59.1	54.0	61.1	66.0	66.4
462.0	58.6	53.0	60.1	65.0	65.1
473.0	58.1	52.0	59.1	64.0	63.8
484.0	57.6	51.0	58.1	63.0	62.5
495.0	57.1	50.0	57.1	62.0	61.2
506.0	56.6	49.0	56.1	61.0	59.9
517.0	56.1	48.0	55.1	60.0	58.6
528.0	55.6	47.0	54.1	59.0	57.3
539.0	55.1	46.0	53.1	58.0	56.0
550.0	54.6	45.0	52.1	57.0	54.7
561.0	54.1	44.0	51.1	56.0	53.4
572.0	53.6	43.0	50.1	55.0	52.1
583.0	53.1	42.0	49.1	54.0	50.8
594.0	52.6	41.0	48.1	53.0	49.5
605.0	52.1	40.0	47.1	52.0	48.2
616.0	51.6	39.0	46.1	51.0	46.9
627.0	51.1	38.0	45.1	50.0	45.6
638.0	50.6	37.0	44.1	49.0	44.3
649.0	50.1	36.0	43.1	48.0	43.0
660.0	49.6	35.0	42.1	47.0	41.7
671.0	49.1	34.0	41.1	46.0	40.4
682.0	48.6	33.0	40.1	45.0	39.1
693.0	48.1	32.0	39.1	44.0	37.8
704.0	47.6	31.0	38.1	43.0	36.5
715.0	47.1	30.0	37.1	42.0	35.2
726.0	46.6	29.0	36.1	41.0	33.9
737.0	46.1	28.0	35.1	40.0	32.6
748.0	45.6	27.0	34.1	39.0	31.3
759.0	45.1	26.0	33.1	38.0	30.0
770.0	44.6	25.0	32.1	37.0	28.7
781.0	44.1	24.0	31.1	36.0	27.4
792.0	43.6	23.0	30.1	35.0	26.1
803.0	43.1	22.0	29.1	34.0	24.8
814.0	42.6	21.0	28.1	33.0	23.5
825.0	42.1	20.0	27.1	32.0	22.2
836.0	41.6	19.0	26.1	31.0	20.9
847.0	41.1	18.0	25.1	30.0	19.6
858.0	40.6	17.0	24.1	29.0	18.3
869.0	40.1	16.0	23.1	28.0	17.0
880.0	39.6	15.0	22.1	27.0	15.7
891.0	39.1	14.0	21.1	26.0	14.4
902.0	38.6	13.0	20.1	25.0	13.1
913.0	38.1	12.0	19.1	24.0	11.8
924.0	37.6	11.0	18.1	23.0	10.5
935.0	37.1	10.0	17.1	22.0	9.2
946.0	36.6	9.0	16.1	21.0	7.9
957.0	36.1	8.0	15.1	20.0	6.6
968.0	35.6	7.0	14.1	19.0	5.3
979.0	35.1	6.0	13.1	18.0	4.0
990.0	34.6	5.0	12.1	17.0	2.7
1000.0	34.1	4.0	11.1	16.0	1.4

NUM NUMBER	602.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	NONE
PRIMARY TEMPERATURE (IN)	535.030
SECONDARY TEMPERATURE (IN)	NONE
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	NONE
VELOCITY RATIO	NONE
PRIMARY VELOCITY (FT/SEC)	1318.542
MASS FLOW RATIO	NONE
PRIMARY MASS FLOW (LH/SEC)	.35H
THRUST (LBS)	14.673
ENVIRONMENTAL TEMPERATURE (R)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	59.000
CALIBRATION FACTOR (MV TO DY/50 CH)	.071
INSTRUMENTATION NOISE FLOOR (DB)	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.46043E+00	137.4	THRUST	POWER LEVEL (DB)
500	6.24537E-03	108.0	10000	165.7
1000	5.45010E-02	117.4	20000	168.7
2000	4.46380E-01	126.5	40000	171.7
4000	1.52901E+00	131.8	80000	174.7
8000	2.33203E+00	133.7		
16000	7.74240E-01	128.9		
31500	3.18023E-01	125.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	87.1	96.7	105.0	108.1	106.5	101.4	95.5	112.2
20.0	86.1	96.5	105.3	109.2	111.3	102.7	96.9	114.6
25.0	85.3	95.3	104.0	109.8	111.4	102.7	96.6	114.6
30.0	83.9	93.6	104.2	109.7	111.0	102.7	97.1	115.3
35.0	82.1	92.3	102.2	108.7	110.8	102.7	97.2	115.8
40.0	80.2	90.3	100.5	107.2	109.0	102.7	97.7	111.8
45.0	78.3	87.9	97.9	105.9	105.8	102.8	97.7	118.0
50.0	77.4	86.1	94.3	101.9	104.2	102.0	96.4	109.3
55.0	76.1	84.6	93.6	99.2	103.2	101.1	96.2	107.1
60.0	76.1	84.4	92.5	97.2	102.9	99.9	97.2	109.2
65.0	75.8	83.5	92.0	96.8	99.9	99.2	96.3	106.6
70.0	75.8	83.1	91.7	96.8	99.1	98.3	95.3	103.9
75.0	75.8	83.8	91.0	95.6	99.6	98.0	96.7	103.3
80.0	75.8	84.0	90.5	96.7	98.0	97.3	96.1	102.7
85.0	75.1	83.1	90.2	96.4	97.1	96.7	95.6	102.1
90.0	75.1	82.6	90.0	93.6	97.6	96.3	93.2	102.0
95.0	73.9	81.9	89.3	93.5	96.7	95.8	92.9	101.4
100.0	73.3	81.0	88.9	93.5	96.2	95.4	92.3	100.9
105.0	73.1	80.1	87.9	93.1	95.2	95.9	92.6	101.1
110.0	71.4	78.1	86.7	92.1	94.9	94.2	91.1	100.5
115.0	71.8	77.9	86.8	90.1	94.1	93.5	92.8	98.7

MODEL THRUST = 14.673 FULL SCALE THRUST = 20000.000

L	PRNU.	OSOL	OCTAVE 12.5	BAND 25.0	SOUND 50.0	PRESSURE 100.0	LEVELS 200.0	400.0	800.0	1600.0	3150.0	6300.0	12500.0	25000.0
0708.0	49.11	48.31	88.2	65.76	73.37	81.46	86.53	82.37	75.85	69.88	53.67	31.00	-9.11	-77.70
0708.7	45.21	46.31	85.2	65.18	75.51	80.30	85.37	80.35	74.15	70.73	60.76	43.18	11.70	-66.66
0709.1	47.81	46.41	89.1	66.22	74.20	80.68	86.58	81.37	73.71	73.71	60.07	50.27	26.29	-19.57
0709.0	46.11	47.71	90.3	66.13	76.27	80.64	86.48	82.46	76.21	69.88	55.06	33.05	-3.43	
0709.2	100.01	44.41	87.0	65.68	78.44	84.77	92.10	86.02	80.21	73.49	70.69	50.11	39.18	-5.38
0733.5	55.71	47.51	84.0	65.10	76.43	84.45	91.51	82.21	80.25	74.74	73.33	62.27	44.18	14.76
0741.3	44.51	48.41	80.4	63.61	73.29	82.48	84.71	80.43	87.40	81.75	75.38	65.33	44.59	21.54
0755.1	43.11	46.01	83.6	63.51	72.21	81.30	87.38	80.22	87.20	82.31	76.20	66.64	51.02	24.08
0831.2	46.21	44.61	82.6	62.76	71.21	80.14	85.63	87.02	82.43	77.00	67.91	52.88	29.33	
0732.1	44.41	45.41	83.0	62.26	71.40	79.41	80.43	80.35	80.30	82.64	74.76	67.48	52.77	31.17
0854.1	47.51	45.81	81.8	62.16	71.71	79.71	84.22	87.23	80.10	72.07	70.69	67.98	54.22	37.84
0856.3	47.51	43.71	81.6	63.65	73.10	79.11	84.19	80.88	80.44	81.66	75.01	67.68	48.37	33.70
0859.4	47.21	43.71	81.5	62.60	71.03	78.44	83.60	80.60	80.67	81.69	71.62	67.68	50.40	33.31
0859.1	46.41	43.31	80.6	62.33	72.21	78.09	82.42	84.25	80.41	80.49	75.27	67.21	50.35	36.11
0858.7	46.11	42.41	80.1	61.43	71.66	77.51	82.74	80.60	80.60	80.60	74.44	66.49	49.14	34.11
0858.0	46.11	42.91	80.1	61.67	70.10	76.37	82.26	80.70	80.45	79.69	74.61	66.82	47.91	33.00
0858.7	45.41	42.81	80.0	62.27	70.30	77.41	81.51	80.73	80.44	79.61	74.32	67.21	53.45	32.42
0858.1	45.11	41.21	81.9	61.51	70.10	77.10	81.51	80.73	80.44	79.61	74.32	67.21	53.45	32.42
0857.0	46.41	41.81	80.8	61.15	69.21	75.53	81.44	80.11	80.35	79.63	74.63	66.80	51.78	31.17
0856.3	43.11	40.81	80.5	60.27	68.10	74.44	79.44	80.64	81.16	77.67	71.43	63.62	52.20	24.72
0855.1	41.41	40.01	80.0	59.36	66.47	74.37	77.42	80.30	80.31	79.61	74.44	62.30	49.00	24.00

RUN NUMBER	605.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	NONE
PRIMARY TEMPERATURE (IN)	539.000
SECONDARY TEMPERATURE (IN)	NONE
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	NONE
VELOCITY RATIO	NONE
PRIMARY VELOCITY (FT/SEC)	1570.810
MASS FLOW RATIO	NONE
PRIMARY MASS FLOW (LB/SEC)	1.007
THWIST (LBS)	29.595
ENVIRONMENTAL TEMPERATURE (RI)	523.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	55.000
CALIBRATION FACTOR (MV TO DY/SEC CM)	.178
INSTRUMENTATION NOISE FLOOR (DN)	74.500

RUN NUMBER 605 INSUFFICIENT DATA FOR COMPLETE PRINTOUT.

OVERALL SOUND POWER FOR MODEL

144.7 dB re 10^{-12} watts

MAXIMUM 1500-FT SIDELINE PERCEIVED NOISE LEVEL

103 PNdB

WIND NUMBER	606.000
AIRAL POSITION UP MH (HAWY DWT, SECONDARY (INS.))	NONE
PRIMARY TEMPERATURE (IN)	532.000
SECONDARY TEMPERATURE (IN)	NONE
PRIMARY PRESSURE RATIO	3.500
AREA RATIO	NONE
VELOCITY RATIO	NONE
PRIMARY VELOCITY (FT/SEC)	NONE
MASS FLOW RATIO	1500.000
PRIMARY MASS FLOW (LB/SEC)	NONE
THRUST (LBS)	49.638
ENVIRONMENTAL TEMPERATURE (IN)	522.000
ENVIRONMENTAL PRESSURE (IN-HG)	29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	54.000
CALIBRATION FACTOR (IN TO 07/50 CH)	.224
INSTRUMENTATION NOISE FLOOR (DB)	76.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	4.65362E+01	146.7	THRUST	POWER LEVEL (DB)
500	1.76169E-01	122.5	10000	169.7
1000	1.49256E+00	131.7	20000	172.7
2000	8.27637E+00	139.2	40000	175.7
4000	1.53982E+01	141.9	80000	178.8
8000	1.27703E+01	141.1		
16000	5.70775E+00	137.6		
31500	2.71485E+00	134.3		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	103.4	112.0	117.3	118.8	116.5	110.7	105.4	123.2
20.0	102.4	111.5	117.0	117.7	117.0	112.0	106.0	122.0
25.0	100.7	111.1	118.6	120.2	118.9	113.5	108.7	124.6
30.0	98.7	109.4	117.8	120.0	118.0	112.9	109.1	124.6
35.0	96.6	108.8	115.9	118.9	117.0	113.6	109.9	123.1
40.0	94.1	103.9	113.2	117.2	115.9	112.6	107.4	121.5
45.0	91.6	101.0	109.4	113.6	114.1	111.9	108.7	119.1
50.0	89.3	98.3	106.1	110.7	112.5	110.5	107.5	117.1
55.0	88.2	96.6	103.4	108.1	110.4	109.0	106.4	115.1
60.0	89.0	95.8	102.7	106.5	109.3	107.4	105.2	113.5
65.0	88.2	95.8	101.9	105.4	107.6	106.0	104.0	112.5
70.0	88.2	95.3	101.1	104.3	107.0	104.9	103.1	111.6
75.0	87.2	94.8	100.2	103.7	106.5	104.0	102.3	110.9
80.0	87.9	94.4	99.5	103.2	106.0	103.1	101.6	110.3
85.0	87.4	93.8	99.0	102.8	105.5	102.5	100.8	109.8
90.0	86.1	93.1	99.0	102.5	105.1	101.8	100.3	109.4
95.0	86.1	92.6	98.5	102.2	104.7	101.3	99.7	108.9
100.0	85.6	92.1	97.9	101.9	104.3	100.8	99.3	108.5
105.0	85.1	92.1	97.8	101.5	104.6	100.3	99.8	108.1
110.0	83.9	90.8	97.2	101.0	103.6	99.7	99.4	107.7
115.0	84.3	89.5	96.7	100.5	103.0	99.3	97.8	107.1

MODEL THRUST = 49.638 FULL SCALE THRUST = 20000.000

L	PHOB.	OASPL	OCTAVE 24.9		BAND 49.8		SOUND 99.6		PRESSURE 199.3		LEVELS 398.5		797.1		1594.3		3138.6		6227.3		12454.6		24909.3	
5795.6	45.71	93.51	93.5	74.78	83.32	88.48	89.47	85.77	76.34	62.83	41.87	4.33	-60.31	-161.00										
4385.7	49.41	94.31	96.9	76.13	85.20	91.45	92.98	89.99	81.45	69.74	53.20	24.06	-29.58	-103.02										
3949.3	102.91	102.31	99.5	76.34	86.71	94.06	95.40	92.79	83.58	73.75	61.76	37.59	-31.10	-90.40										
3480.0	104.91	104.01	100.9	75.40	86.40	94.76	97.12	94.81	88.01	78.94	66.64	45.76	10.86	-43.06										
2615.2	105.21	104.11	100.6	74.82	85.04	94.02	96.80	94.30	89.32	81.88	70.78	52.10	21.34	-20.01										
2333.6	105.21	103.91	99.9	73.32	83.14	92.55	96.15	94.28	87.50	81.06	72.83	55.92	24.10	-14.50										
2121.3	104.41	102.41	99.2	71.74	81.03	89.63	93.40	91.42	85.49	81.65	74.08	58.43	32.87	-9.13										
1948.1	103.51	101.41	98.4	70.08	79.34	87.79	91.26	89.34	83.58	74.51	59.84	30.82	-4.22											
1831.2	102.41	100.41	95.4	69.59	77.46	86.70	89.20	87.05	81.57	73.37	58.69	28.78	38.30	4.22										
1737.1	101.41	99.31	94.3	70.00	77.05	86.15	88.14	86.52	81.45	72.92	58.55	27.80	7.41											
1655.1	100.91	98.31	93.4	70.47	76.08	85.15	87.44	85.25	80.62	72.25	58.12	26.85	40.85	4.50										
1586.3	100.41	97.81	93.3	70.14	75.54	84.58	86.84	84.95	80.44	71.81	57.84	25.84	41.40	11.30										
1557.0	100.21	97.11	92.9	71.03	75.32	84.47	86.75	84.75	80.27	71.54	57.32	24.75	41.75	12.40										
1523.1	99.41	97.71	92.5	70.81	75.32	84.43	86.75	84.75	80.27	71.54	57.32	24.75	41.75	12.40										
1505.7	99.41	97.21	92.0	70.50	75.11	84.23	86.53	84.53	80.07	71.34	56.97	24.56	41.56	13.00										
1500.7	99.01	96.81	91.7	69.20	74.14	83.16	85.42	83.63	79.49	72.15	60.21	41.25	12.74											
1505.7	98.41	96.41	91.2	69.18	74.07	83.04	85.34	83.54	79.40	71.03	59.85	40.44	11.40											
1523.1	97.91	95.81	90.7	68.57	73.05	82.02	84.29	82.49	78.60	70.88	58.81	39.61	10.75											
1557.9	97.11	95.31	90.2	67.47	72.41	81.47	83.72	81.92	77.82	70.00	57.75	38.23	4.47											
1594.1	96.41	94.51	89.4	67.47	71.24	80.44	82.69	80.89	76.79	68.97	56.68	36.45	0.55											
1655.1	95.31	93.01	88.5	66.76	70.00	79.23	81.48	79.68	75.58	67.76	55.02	34.42	3.33											

RUN NUMBER	604.00 (836.00)
AXIAL POSITION OF PRIMARY MNT. SECONDARY (INCH)	NONE
PRIMARY TEMPERATURE (IN)	533.000
SECONDARY TEMPERATURE (IN)	NONE
PRIMARY PRESSURE RATIO	NONE
AREA RATIO	3.500
VELOCITY RATIO	NONE
PRIMARY VELOCITY (FT/SEC)	NONE
MASS FLOW RATIO	1450.000
PRIMARY MASS FLOW (LB/SEC)	NONE
THRUST (LBS)	21.315
ENVIRONMENTAL TEMPERATURE (IN)	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	54.000
CALIBRATION FACTOR (MV TO DT/SQ CM)	.142
INSTRUMENTATION NOISE FLOOR (DB)	72.531

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER (WATTS)	POWER LEVEL (DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	2.63899E+01	144.2	THRUST	POWER LEVEL (DB)
500	4.49746E-02	116.5	10000	170.9
1000	2.55772E-01	124.1	20000	173.9
2000	2.39147E+00	133.9	40000	176.9
4000	5.56323E+00	139.3	80000	180.9
8000	9.54336E+00	139.8		
16000	3.69573E+00	135.7		
31500	1.89504E+00	132.8		

EXPERIMENTAL DATA TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	93.4	102.7	111.2	115.1	115.5	109.6	104.7	119.8
20.0	92.9	102.8	111.8	116.1	117.5	109.4	104.7	121.0
25.0	92.2	101.7	111.9	116.6	116.6	109.8	104.8	120.8
30.0	91.0	100.9	111.7	117.2	116.1	109.9	104.7	120.9
35.0	89.1	99.1	110.4	116.6	114.5	109.1	104.3	119.9
40.0	88.2	96.8	108.4	115.2	115.2	109.0	104.4	119.3
45.0	86.9	95.1	105.6	112.7	112.5	108.8	105.0	117.1
50.0	85.7	92.8	103.2	109.6	110.5	108.4	105.6	115.2
55.0	85.4	91.2	100.4	108.8	109.6	107.2	105.2	113.8
60.0	85.0	90.6	99.1	105.1	109.7	106.5	105.1	112.9
65.0	85.4	90.8	98.8	103.4	108.2	105.9	104.3	112.2
70.0	84.7	91.0	94.4	103.2	107.1	105.2	103.5	111.3
75.0	85.4	90.8	98.1	102.7	106.2	104.7	103.2	110.7
80.0	89.3	90.6	97.8	102.4	105.5	104.3	102.7	110.3
85.0	84.7	90.4	97.3	102.0	105.0	103.9	102.2	109.6
90.0	84.7	89.8	96.9	101.2	104.5	103.6	101.5	109.2
95.0	84.7	89.1	96.7	100.9	104.3	103.3	101.2	109.0
100.0	85.0	88.9	96.3	100.7	104.0	103.0	100.4	108.7
105.0	84.3	88.2	94.0	100.4	103.7	102.5	100.3	108.2
110.0	83.9	87.9	94.0	99.6	103.2	102.0	99.6	107.7
115.0	84.3	87.1	92.5	98.2	102.7	101.0	98.7	106.8

MODEL THRUST = 21.315 FULL SCALE THRUST = 20000.000

L.	PRUG.	OASPL	OCTAVE		BAND	SOUND	PRESSURE		LEVELS				
			16.3	32.6	65.3	130.6	261.2	522.3	1028.3	2050.7	4080.7	8101.4	16322.8
5795.4	96.21 (95.6)	93.9	68.46	77.45	86.16	89.79	89.38	81.51	71.68	57.29	31.06	-15.98	-93.89
4385.7	100.51 (99.8)	97.8	70.20	80.18	89.13	93.27	94.11	84.52	76.06	64.44	43.87	7.54	-52.15
3549.3	102.51 (101.4)	99.6	71.45	81.01	91.16	95.68	95.22	87.18	79.12	69.15	51.92	21.95	-26.92
3000.0	104.11 (104.8)	101.2	71.77	81.63	92.36	97.77	96.29	88.97	81.23	72.33	57.31	31.51	-10.26
2615.7	106.41 (106.8)	101.4	71.02	81.06	92.26	98.42	95.94	89.64	82.65	74.51	61.03	38.15	1.35
2333.4	105.81 (105.9)	101.8	71.10	79.74	91.29	97.48	97.67	90.80	84.09	76.50	64.15	43.42	10.25
2121.3	104.91 (102.7)	100.4	70.63	78.40	89.35	96.29	95.85	91.44	85.82	78.65	67.15	48.03	17.01
1958.1	104.51 (101.2)	99.1	70.12	77.26	87.57	93.08	94.59	91.74	87.30	80.46	69.61	51.73	23.42
1831.2	104.21 (101.2)	98.2	70.38	76.20	85.42	91.69	94.29	91.25	87.73	81.13	70.79	53.87	27.21
1732.1	104.11 (100.5)	97.8	70.52	76.16	84.62	90.54	93.42	91.03	88.24	81.83	71.89	55.73	30.34
1655.1	103.91 (100.7)	97.4	71.26	76.71	84.69	89.75	93.80	90.91	87.49	81.64	72.01	56.43	32.24
1594.3	103.81 (100.1)	97.0	70.88	77.71	84.77	89.28	93.03	90.56	87.44	81.36	71.96	56.83	33.20
1557.9	103.21 (99.7)	96.7	71.81	77.26	84.44	89.03	92.38	90.33	87.51	81.46	72.23	57.43	34.36
1523.1	102.31 (99.5)	96.4	75.94	77.24	84.43	88.44	91.44	90.10	87.20	81.21	72.10	57.53	34.44
1505.7	102.51 (99.1)	96.1	71.38	77.14	84.44	88.44	91.43	89.43	86.86	80.90	71.86	57.42	34.96
1500.0	102.01 (98.6)	95.5	71.42	76.55	83.67	87.83	90.97	89.92	85.14	80.19	71.18	56.78	34.39
1405.7	111.71 (98.1)	95.1	71.74	75.17	83.82	87.55	90.75	89.14	85.41	79.57	70.44	56.40	31.91
1523.1	111.71 (97.7)	94.3	71.64	75.54	82.60	87.26	90.15	88.74	85.34	79.35	70.24	55.67	31.48
1552.4	110.41 (97.2)	94.2	70.75	74.44	80.40	86.74	89.48	87.15	84.64	78.59	69.37	54.57	31.50
1544.1	109.41 (96.7)	93.4	70.12	74.14	80.16	85.76	89.11	87.15	83.82	77.48	68.08	52.95	29.36
1654.1	107.41 (95.2)	92.2	70.14	74.44	80.41	85.03	88.24	86.4	83.39	76.45	66.42	50.84	29.43